



## A NEW ERA OF WINDOWS.

**KÖMMERLING 88 MD**

Premium centre seal system for  
windows and doors



**KÖMMERLING®**



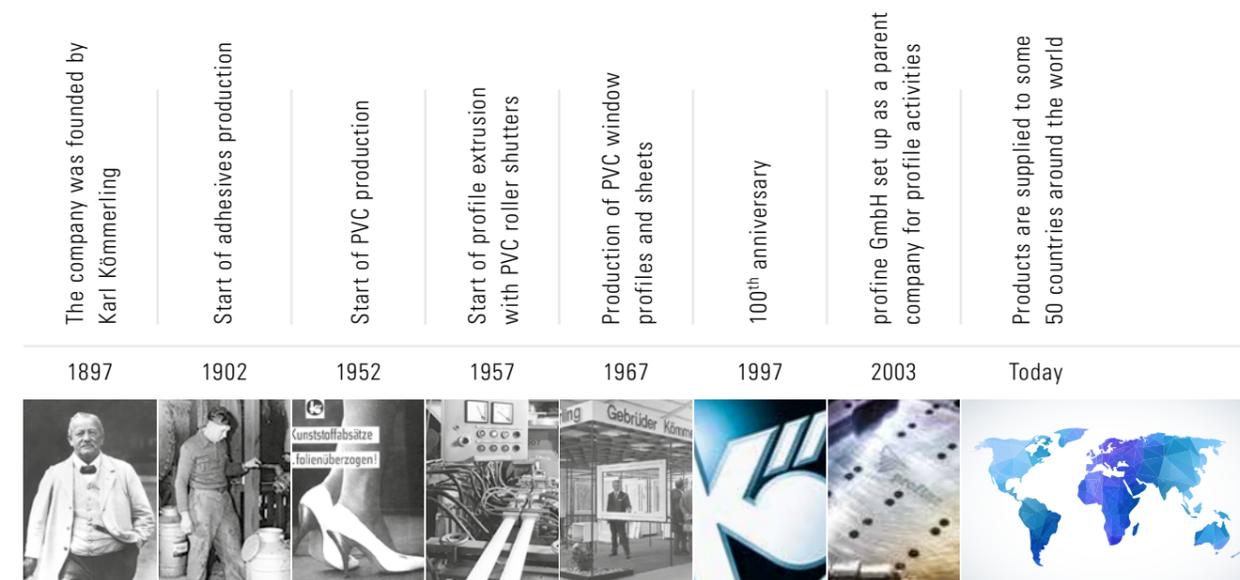
# SUCCESS BASED ON VISIONARY IDEAS.

**KÖMMERLING. The premium brand.**

**KÖMMERLING has been manufacturing high quality windows with progressive technologies for generations. The company was founded back in 1897 by Karl Kömmerling.**

Right from the outset it focused on the use of modern materials. In the early years of the company's long history these were adhesives and synthetic rubber. KÖMMERLING has always been a dynamic company with pioneering products.

In 1957 it commenced the production of PVC roller shutters, followed by high quality window profiles in 1967. As a result of the high quality of its products and innovative strength, the KÖMMERLING brand soon evolved into a leading system supplier. It has now set a new benchmark with the KÖMMERLING 88 window and door system.





# WHAT WILL OUR FUTURE HOMES BE LIKE?

**Secure, smart and  
energy efficient.**

**Our lives will change in the future. New, green mobility solutions will be introduced. The digital transformation, cloud computing and smart factories will create new work processes. And we will have smart homes that are more secure and energy efficient.**

But our comfort in the future world will depend on more than just computer technology. KÖMMERLING conducted detailed research into windows, as a structural component of buildings, to ascertain how they need to be modified to meet future needs. Our engineers left no stone unturned, implemented extensive tests and came up with an innovative solution: KÖMMERLING 88 MD – the window of the future.



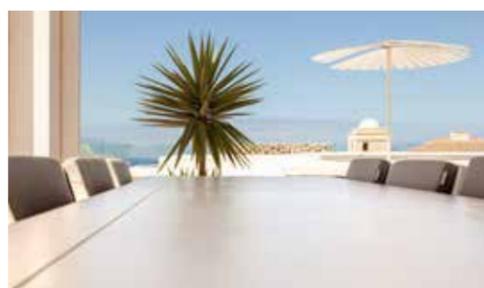
Modern architecture incorporates fascinating, generously dimensioned glass surfaces.

# WHAT ROLE WILL WINDOWS PLAY IN THE FUTURE?

Light is a key contributor to our well-being. It's essential to our survival. The architectural community has channelled this insight into light-filled and welcoming homes and workspaces with large window panes.

Due to their size, these windows need ultra-modern profiles with innovative technology to deliver the necessary static stability, and modern functional glazing with in-built soundproofing properties that also satisfy demanding energy-related requirements.

KÖMMERLING 88 MD is a premium window and door system that delivers on all counts. It is designed with impressive technological features that satisfy both present day and future requirements. This is a window system for light-filled spaces and the perfect outlook in the future world.



- Premium centre seal system for windows and residential doors with 88 mm installation depth
- High-insulating 7-chamber construction with centre gasket
- Elegant, linear design for ultra-modern triple glazing or functional glass panes up to 58 mm thick



## WHY IS THE BEST PRODUCT ALWAYS THE RIGHT CHOICE?



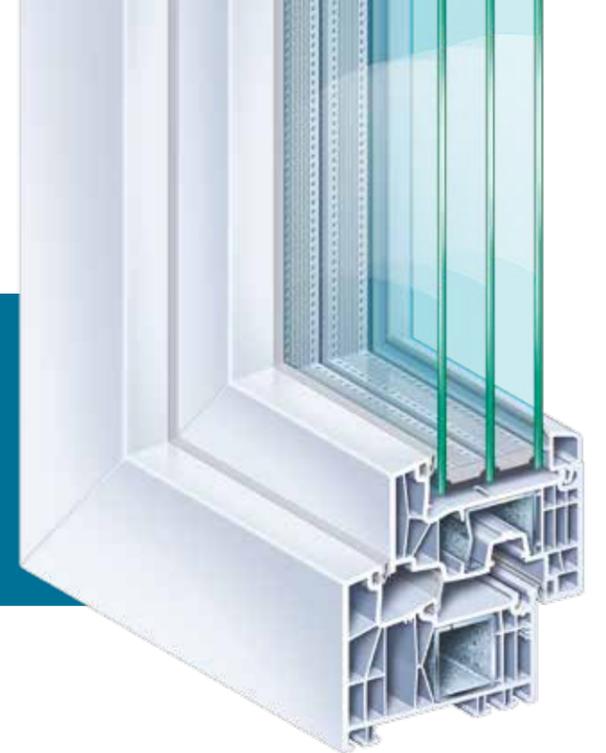
### When you build today, you're also building for the future.

KÖMMERLING 88 MD is a window and door system that already satisfies future requirements. In short, it delivers maximum future security. KÖMMERLING 88 MD energy efficiency and sound insulation values are already significantly better than comparable systems.

This ultra-modern window and door system is also built to exacting quality standards to ensure its durability, plus easy maintenance and care. So you can enjoy your new windows for a long time to come. Give yourself and your family a great future with the perfect window: KÖMMERLING 88 MD.



**KÖMMERLING**  
standard  
windows are  
passive house-  
compatible.



- Passive house compatibility as defined in ift directive WA-15/2.
- Excellent heat insulation values:  
 $U_f$  value =  $0.95 \text{ W}/(\text{m}^2\text{K})$   
 $U_w$  value up to  $0.72 \text{ W}/(\text{m}^2\text{K})$ .
- Wide range of glazing options up to 58 mm thick, from triple glazing to special functional glazing.
- Foils in wood textures, plain and metallic colours or classic white.

## WHO CAN AFFORD TO SAVE ENERGY?

Passive house concepts only work with sophisticated heat insulation that reduces annual heating requirements to 15 kWh per square metre of living area.

Even the standard version of KÖMMERLING 88 MD meets the high heat insulation requirements for passive houses when fitted with functional glazing. It enables everyone to make a valuable yet affordable contribution to reducing CO<sub>2</sub> levels.

Versions with even better insulation properties are also available, e.g. with proEnergyTec. In other words, KÖMMERLING 88 MD makes zero-energy and plus-energy buildings possible.



# WHY IS EVERY TENTH OF A U VALUE IMPORTANT?

It's decisive to energy efficiency and climate protection.

It's often the small details that make the biggest difference. Especially in the case of a window's  $U_f$  value. The lower the value, the better. And the numbers behind the decimal point also count. They may just be tenths or hundredths of a whole value, but they make a big difference. KÖMMERLING 88 MD delivers impressive energy and heating cost savings.

The unique proposition: KÖMMERLING 88 MD achieves these savings with maximum sash and window pane dimensions because unlike other systems KÖMMERLING 88 MD doesn't have to reduce steel reinforcement components to improve heat insulation performance. It's a unique design advantage.



$U_f$  value  
standard:  
**0.95**  
W/(m<sup>2</sup>K)



$U_f$  value with  
insulating parts:  
**0.88**  
W/(m<sup>2</sup>K)



$U_f$  value  
proEnergyTec:  
**0.79**  
W/(m<sup>2</sup>K)

White and coloured windows are passive house compatible even in the standard versions. And they are steel reinforced for maximum sash sizes.

Even higher heat insulation values can be achieved with integrated insulating parts.

The highest heat insulation values are achieved if the frame and sash are filled with proEnergyTec foam.



**The innovations in the  
KÖMMERLING 88 MD system.**

# TOMORROW'S TECHNOLOGY TODAY.

**KÖMMERLING 88 MD incorporates the latest technology based on extensive research and development activities. It has a number of ground-breaking innovative features.**

One is the universal modular concept. It allows you to inexpensively compile your own individual KÖMMERLING 88 MD window reflecting your personal requirements and preferences, from design to insulation properties. And, thanks to smart installation methods, your window company can install KÖMMERLING 88 MD windows safely and cleanly. Finally, coordinated connectors and profiles for inside and outside window sills guarantee perfect results.



# HOMES WILL BE THIS QUIET IN THE FUTURE.

## Soundproofing with KÖMMERLING 88 MD.

Enjoy peace and quiet with KÖMMERLING 88 MD. The high level of soundproofing excludes annoying noises, even when the building is located on a busy street. This is achieved with a 7-chamber design and a large reinforcement chamber in the profile, innovative gasket technology, soundproof glazing and professional installation.

# MAKE SURE YOUR HOME IS SECURE.

## Intruder protection with KÖMMERLING 88 MD.

Burglary figures continue to rise dramatically. KÖMMERLING 88 MD has anti-burglary fittings for the effective protection of you and your family. The system is designed for simple and cost-effective adaptation to your individual security needs.



- Can be fitted with suitable soundproof glass in a thickness of up to 58 mm.
- Satisfies the highest noise protection requirements.



- For windows up to resistance class RC 2 (WK 2).
- Anti-burglary fittings can be used.



# WHAT DO YOU GET FROM YOUR FUTURE WINDOW?

Benefits of KÖMMERLING 88 MD premium window system.



## More design

Streamlined and linear profiles in a wide range of colours with plain coloured, metallic, wood texture or aluminium facing shells.



## More heat insulation

KÖMMERLING 88 MD makes the passive house window its standard. Versions with even better insulation properties are also available, e.g. with proEnergyTec.



## More soundproofing

Excellent noise protection with high quality functional glass panes.



## More security

Perfect for incorporation of security fittings and anti-burglary features.



## More flexibility

KÖMMERLING 88 MD is the complete window and door system based on a modular concept and efficient upgrade technologies, so it can be flexibly adapted to your requirements.



## More ease of maintenance

High-quality surfaces that are incredibly easy to clean.



## More value

Durable quality and eco-friendly PVCs sustainably enhance your property's value.



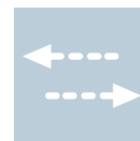
## More stability

Optimally dimensioned steel reinforcements provide perfect window statics. With AluClip Pro the aluminium facing shell performs the function of steel reinforcements.



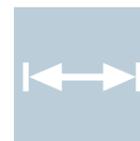
## More tightness

3 seal levels and the innovative rebate gaskets keep draughts, dust and rain out, and deliver optimum heat insulation.



## More ventilation

KÖMMERLING has an optimised ventilation programme to ensure the perfect indoor climate.



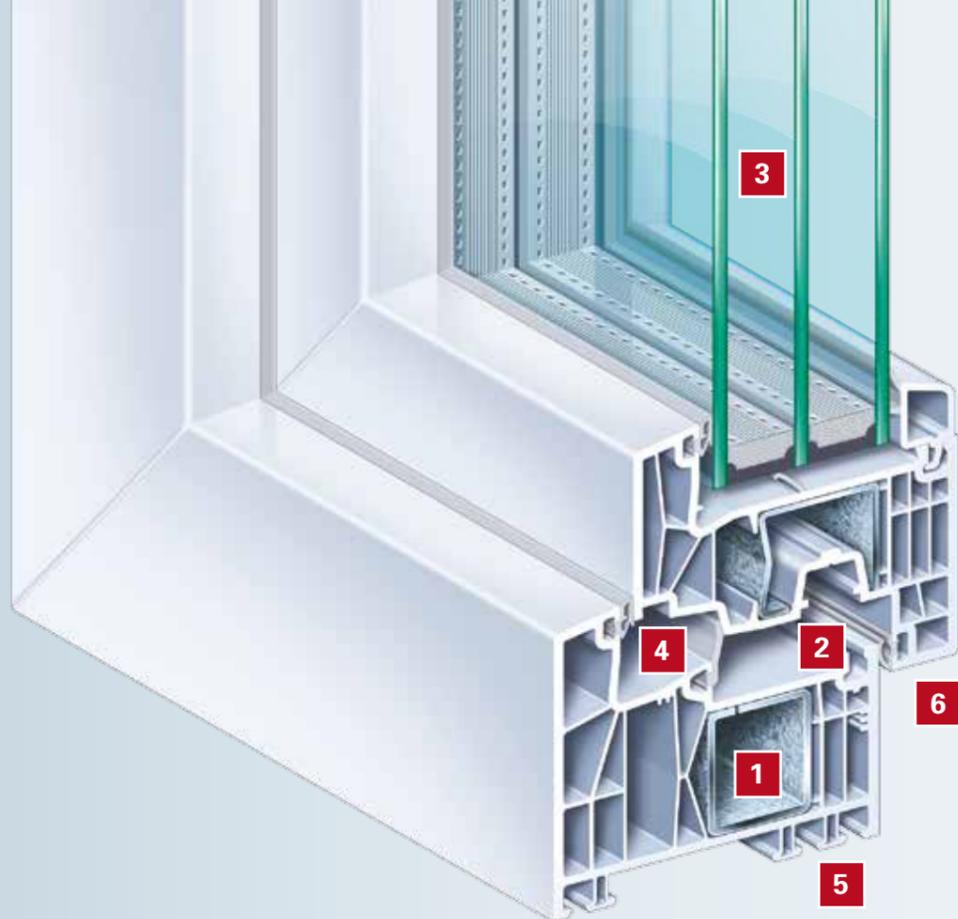
## 88 mm installation depth

Perfect for new buildings and for buildings with sophisticated architecture or energy concepts.



## More ease of operation

Designed to incorporate the very latest fittings technology for easy opening and closing. Concealed fittings are also possible to meet the highest requirements of aesthetics.



# THE INTERIOR VALUES.

## KÖMMERLING 88 MD The details of the window system.

You can't see the technology inside a window just by looking at it. To reveal it, you have to look inside the profile. KÖMMERLING 88 MD technology is the most advanced window technology available. The innovative multi-chamber design, three seal levels, optimised stability and upgrade technologies such as proEnergyTec are just a few impressive examples of the innovative features incorporated in the new system.



1

### High functional reliability

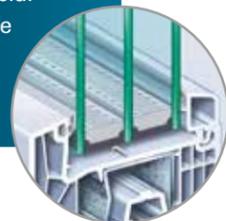
The maximum-dimensioned steel reinforcements guarantee high functional reliability and enable the windows to be used for window walls and wing doors of up to 2.5 m in height.



3

### Glazing options

The deep glass rebate permits the use of triple glazing, special functional glass or balustrade panels up to 58 mm thick.



5

### Professional installation

The windows can be installed with steel dowel pins, classic mounting anchors or with a dowel chamber and a special patented dowel adapter.



### Inserted insulating parts

The heat insulation values satisfy passive house requirements and can be further enhanced with additional insulating parts – without any detrimental effect on the statics for large sashes and glass surfaces.



2

### Perfect multi-chamber design

The profile geometries are designed with optimum isothermal characteristics, calculated with the latest methods, for outstanding heat insulation and soundproofing values, and optimum profile stability.



4

### Seals

The three seal levels – with a centre gasket – and the innovative sash rebate gasket guarantee excellent protection against impact rain, optimum windproofing and outstanding soundproofing.



6

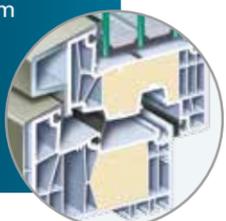
### Securely mounted fittings

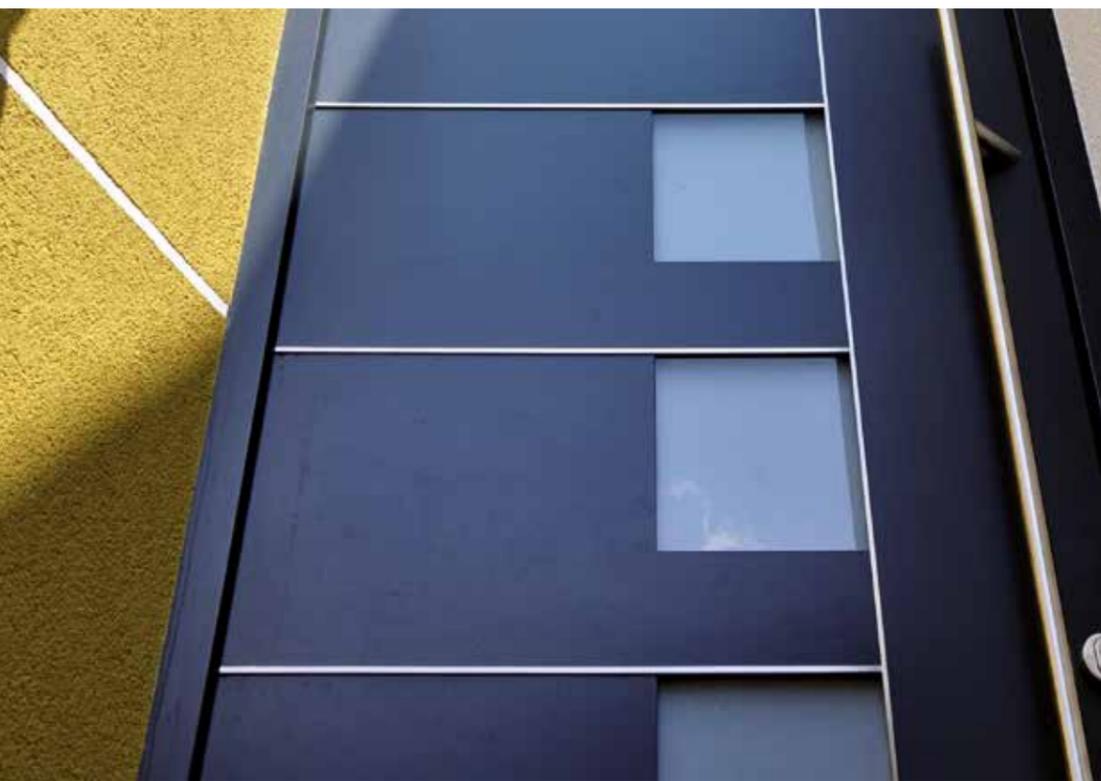
The load bearing parts with several profile walls and additional thickening are connected with special screw pins in the main load bearing zones.



### proEnergyTec

Special techniques that ensure high torsional rigidity make it possible to dispense with the steel reinforcements inside the window. The reinforcement chambers are filled with proEnergyTec foam to achieve the very highest heat insulation values.



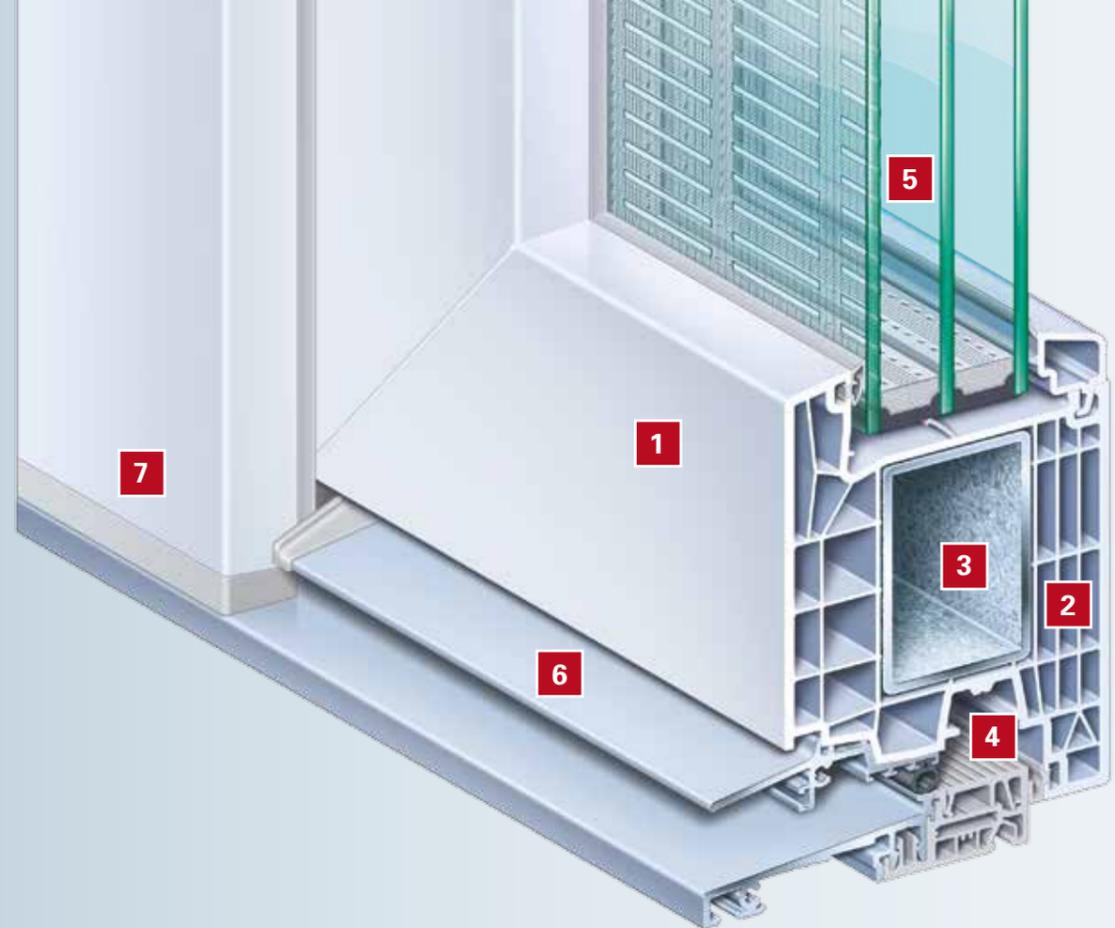


# YOUR EXCLUSIVE DOOR.

For enhanced security and energy efficiency.

The KÖMMERLING 88 MD range also includes front doors, side doors, balcony and patio doors and parallel side-and-tilt doors. It's a one-stop opportunity to harmonise design and technology.

The KÖMMERLING 88 MD residential doors add a distinctive feature to your home and offers maximum intrusion protection for your safety and security. Diverse surface, colour, decorative and functional glazing options, door panels and additional features ensure that your future guests will feel welcome whenever they walk through a KÖMMERLING 88 MD door.



# READY FOR FUTURE TECHNOLOGY.

## KÖMMERLING 88 MD The details of the door system.

KÖMMERLING 88 MD door systems incorporate many special technical features. They guarantee high security, excellent heat insulation, outstanding soundproofing and very stable statics. A KÖMMERLING 88 MD door is always the right choice.



**1**

**Attractive design**

Linear, recessed design with the perfect profile proportions.

**3**

**High functional reliability**

The maximally dimensioned steel reinforcements and welded corner connectors guarantee reliable function and higher static stability.

**5**

**Glazing options**

The deep glass rebate permits the use of triple glazing, special functional glass or door panels up to 58 mm thick.

**7**

**Professional connection**

The threshold connectors ensure perfect fit and a tight seal between the frame and the threshold.

**2**

**Perfect multi-chamber construction**

The profile geometries are designed with optimum isothermal characteristics, calculated with the latest methods, for outstanding heat insulation and soundproofing values and optimum profile stability.

**4**

**Seals**

Double seals and barrier-free thresholds with thermal break ensure a perfectly tight fit.

**6**

**For extreme installation situations**

Aluminium weather boards and a rebate pad set provide additional protection against driving rain.

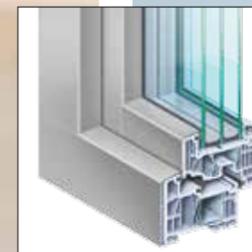
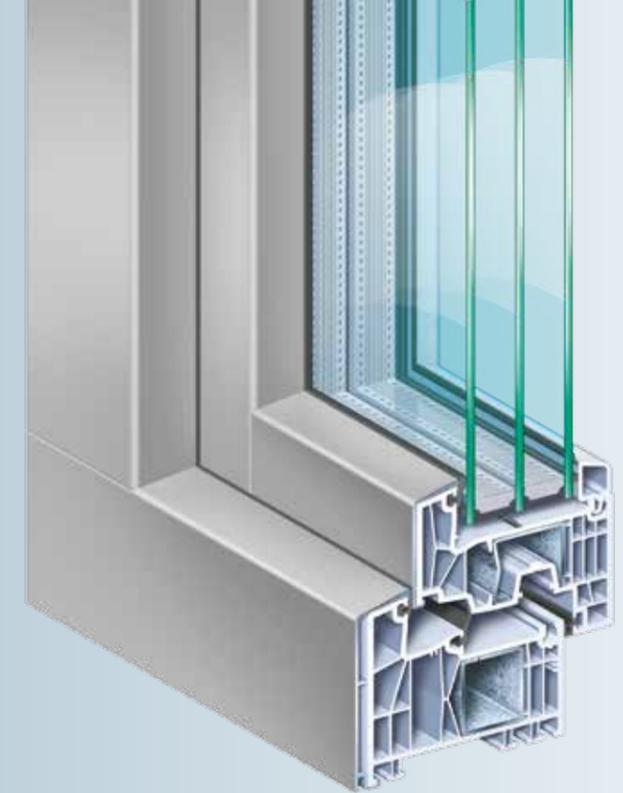
**Variability**

The inward and outward opening residential door system is optionally available with aluminium facing shells.



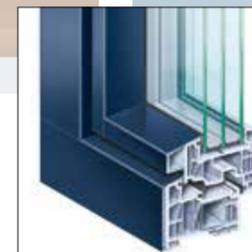
# THE BEST OF TWO WORLDS.

If you prefer the look of aluminium but don't want to do without the excellent heat insulation and soundproofing properties of PVC, we've got just the thing for you! KÖMMERLING 88 MD unites the advantages of both materials. AluClip, AluClip Pro and AddOn are the three innovative material combination options.



### AluClip

The aluminium facing shell combines elegant aluminium design with an almost unlimited choice of colours and the optimum heat insulating values of the modern KÖMMERLING 88 MD PVC profile system.



### AluClip Pro

The aluminium facing shell, AluClip Pro performs the static function that is usually achieved with a steel reinforcement inside the sash profile. So, with AluClip Pro, you don't need that steel reinforcement. This also improves the window's heat insulation properties.



### AddOn

The AddOn aluminium interconnecting frame has a modern design with optional shutter system and sunshade. This provides maximum integrated comfort and convenience, and the additional glass pane improves heat insulation and soundproofing.



# IT DOESN'T HAVE TO BE WHITE.

**KÖMMERLING 88 MD offers you many different design options.**

In the future, there will be a vast diversity of architectural styles. KÖMMERLING 88 MD offers outstanding creative freedom to design homes that reflect your personal preferences. Aesthetic lines and exclusive-looking materials – plus the new window systems – permit the incorporation of both modern and classic features to give the building its own unique character. There are many fascinating surfaces available for both white and coloured window profiles.

The entire foil range offers a choice between wood textures, plain or metallic colours on the outside – with neutral white on the inside – or foil on both sides.



**Classic white**



**Wood texture**



**Plain colours**



**Metallic colours**



## Save resources with KÖMMERLING 88 MD.

KÖMMERLING 88 MD – the window of the future. It's the responsible and forward-looking choice: maximum energy savings, durable quality and sustainable production are all factors that help you make your own personal contribution to environmental protection and the conservation of natural resources. At the same time, KÖMMERLING 88 MD enhances the value of your property, and keeps your family safe and comfortable.

# ECO-FRIENDLY.



- Make a personal contribution to reducing CO<sub>2</sub> emissions with products that deliver passive house heat insulation in the standard version.
- Optimised and therefore resource-conserving material use
- Eco-friendly, lead-free stabilisers with the greenline label
- Closed material loop through professional recycling

**greenline** 

KÖMMERLING 88 MD has such an advanced design, based on computer and simulation technology, that with optimal material use, it achieves maximum insulation values and functions very reliably. Furthermore, absolutely no lead has been used to stabilise the PVC. Instead, an environmentally friendly calcium-zinc based stabiliser has been used. When the proEnergyTec profiles are filled with foam, only green propellants are used. The foam and PVC can also be cleanly separated from each other for recycling. And, on the subject of recycling: at the end of the product lifecycle, we make components for new windows from old ones. This recycling initiative ensures a sustainable closed-loop material cycle.

**profine GmbH**  
KÖMMERLING KUNSTSTOFFE

Postfach 2165 · 66929 Pirmasens · Germany  
Phone +49 6331 56-0 · Fax +49 6331 56-2475  
E-mail: [info@koemmerling.de](mailto:info@koemmerling.de)  
Internet: [www.koemmerling.de](http://www.koemmerling.de)

