



PremiDoor 76

The new trendsetter. The demand for lift/sliding doors is continuously growing.
page 4

PROFINE NEWS



FENSTERBAU FRONTALE 2016

April 2016



EDITORIAL



Dear Customers, Partners and Friends of profine,

This year's FENSTERBAU FRONTALE was once again an exhibition in a league of its own. So it was the perfect place to present profine's latest developments. "People. Passion. Profiles." was our motto. Because as your trusted partner, we put all of our passion into shared success – with new, pioneering products.

Two years ago, we already sent a clear message with our System 76 for the standard segment. Now we've been able to do it again with our System 88 for the premium segment. In so doing, we've closed the last gap in our portfolio of market-based systems.

And that's not all: along with our barrier-free PremiDoor 76 lift/sliding door, we are moving ahead toward the future with many other innovations. We have compiled some of the most important ones here once again for you.

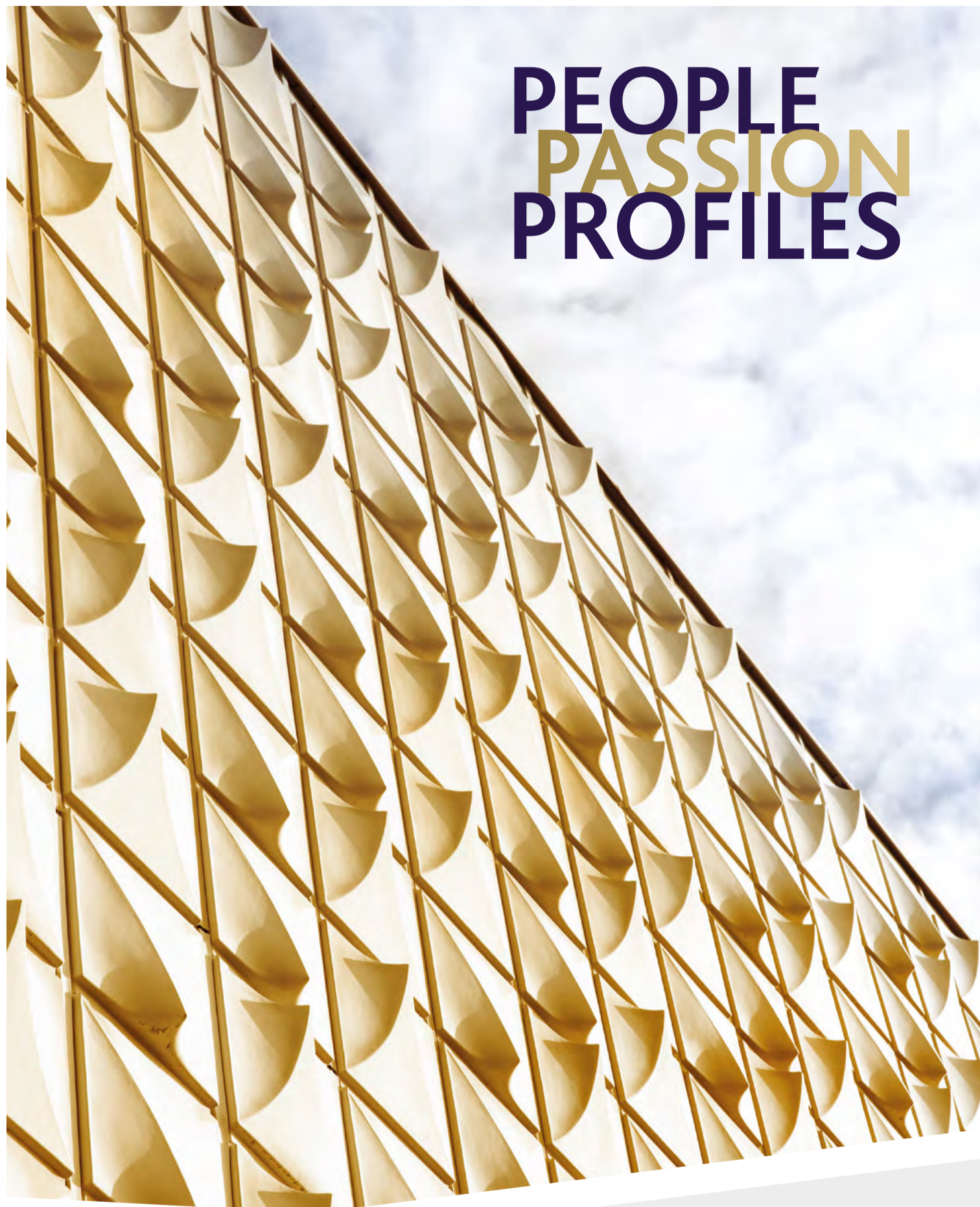
I wish you pleasant reading and enjoyable discoveries.

Yours

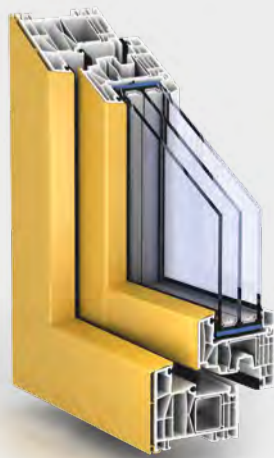
Dr Peter Mrosik
Owner and CEO

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PEOPLE PASSION PROFILES



SYSTEM 88 THE PASSIVE HOUSE WINDOW BECOMES THE STANDARD

profine sets new standards in the premium segment with the new 88 mm system. Here is the window of the future. With a U_f value of 0.95 W/(m²K) even in its standard version, our new profile system with the installation depth of 88 mm meets the demanding thermal insulation specifications required for passive houses. And of course the system also satisfies all of today's and tomorrow's requirements relative to design, functionality, flexibility, compatibility and upgrade capability.

Continued on page 2

SYSTEM 88 THE PASSIVE HOUSE WINDOW BECOMES THE STANDARD



With the new System 88, now we are leveraging the success of our 76 mm system in the premium segment. Like the earlier line, it was developed on a joint system platform for all three brands, and so it will be available starting from July 2016 as KBE 88, KÖMMERLING 88 and TROCAL 88.

Dr Peter Mrosik, owner and CEO of profine Group, says this about the new development: "The topic of sustainability is gaining worldwide attention. Increasing demands for energy efficiency, eco-friendly mobility solutions, digitised work processes and intelligent building services technology are giving us a preview of the world of tomorrow. As a leading profile manufacturer, we too are facing these challenges. With our new System 88, we are offering an intelligent and sustainable solution. It offers extremely efficient thermal insulation, is elegant, permits large glass areas and opens up outstanding

competitive opportunities for our market partners thanks to the modularity of the system elements. This premium window system is trendsetting in every sense of the term."

Three brands, one system

The platform solution for the brands KBE, KÖMMERLING and TROCAL comprises a highly insulating 7-chamber centre seal system with some 20 main geometries and replaces the three previously independent 88 mm systems of the individual brands. Even in the standard configuration, our new system delivers an outstanding U_f value of $0.95 \text{ W}/(\text{m}^2\text{K})$. What makes it exceptional is that unlike similar solutions, this value is also achieved with steel reinforcement for maximum element sizes and beyond even with coloured profiles. With additional insulators a U_f value of $0.88 \text{ W}/(\text{m}^2\text{K})$ can be achieved. Similarly prefoamed proEnergyTec profiles can be used for further thermal insulation.

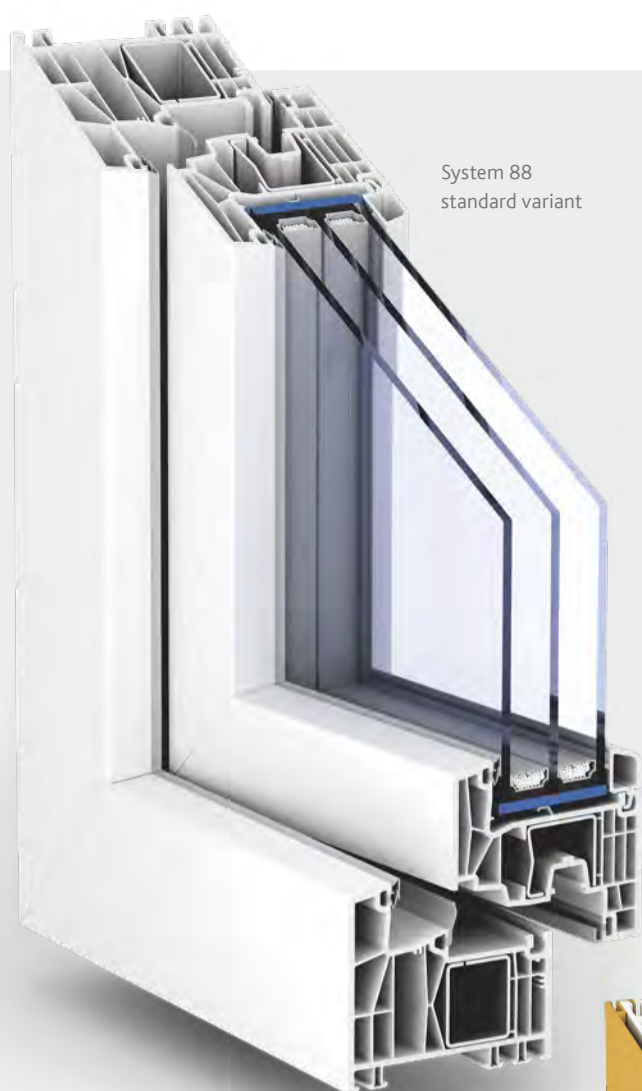
But the new generation of profiles not only delivers impressive energy performance, it is also architecturally advanced: the stable construction accepts triple glazing or ultra modern functional glazing up to 56 mm thick. System 88 enables large window areas for an attractive facade design while permitting outstanding sound insulation values of up to 48 dB (sound insulation class 5) at the same time. And large window areas also provide solar gains – particularly during winter months – which further minimise the energy requirement and thereby also CO_2 emissions.

We provide design latitude

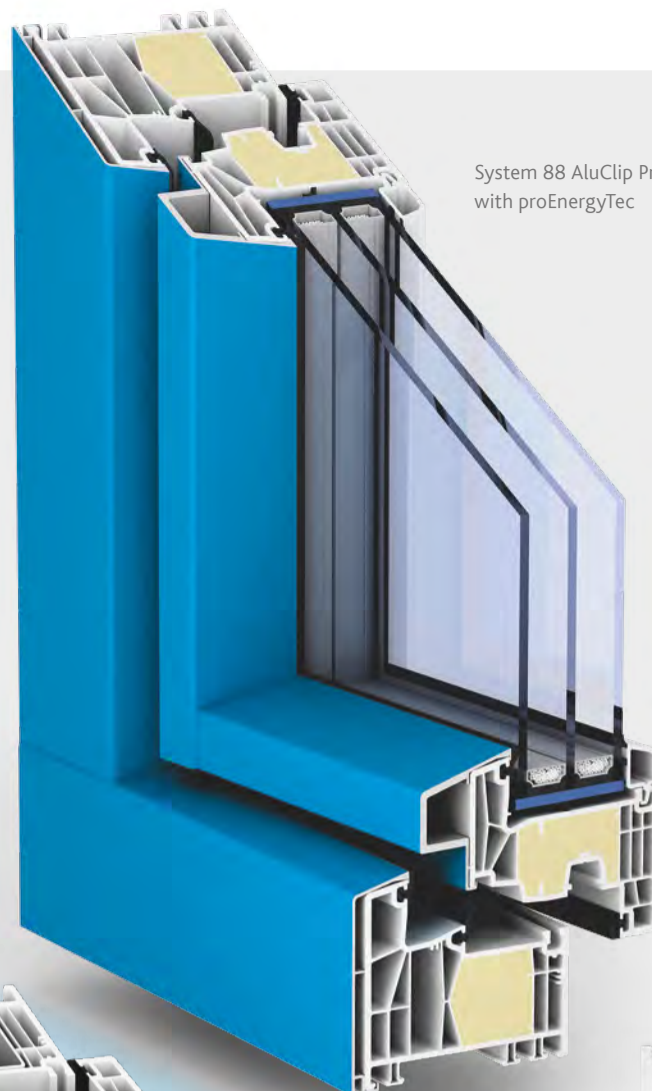
Along with classic white, the profile systems are offered in 88 decor laminates – from solid to wood grains to metallic colours. The customers can select here between two variants – a choice of outside laminated and thereby inside neutral white or both sides laminated. But the design options do not

stop there by any means. Because KBE 88, KÖMMERLING 88 and TROCAL 88 are each available in three different aluminium combinations: with AluClip aluminium cladding, AluClip Pro functional aluminium cladding and AddOn compound sash.

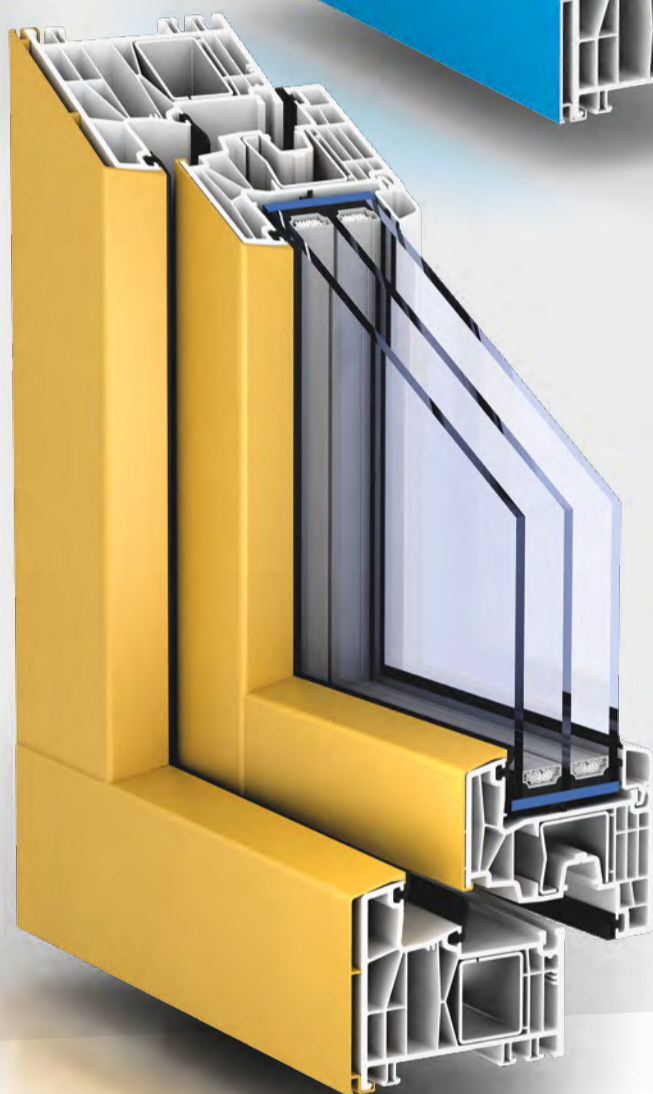
At the same time, of course, profine has developed a market-ready matching door programme with 88 mm installation depth. Like the windows, the doors also provide impressive results with outstanding thermal insulation, broad design latitude and easy integration of burglar-resistant fittings. The new 88 mm system platform also offers numerous advantages in production, because its overall compatibility with System 76 steels, glazing beads and additional ancillary profiles permits the window maker to manage his warehouse cost-effectively and to maintain highly flexible production operations.



System 88 standard variant



System 88 AluClip Pro with proEnergyTec



System 88 AluClip



System 88 inward opening residential door with barrier-free threshold

Dr Mrosik sums it up this way: "With KBE 88, KÖMMERLING 88 and TROCAL 88, after the very successful launch of System 76, we are consistently expanding our product portfolio in the premium segment. The new series is setting the standard in the market with its performance, economy and versatility. I am certain that together with our partners from the window sector we will have a great success with it. Because there's no getting around System 88: it's the window of the future."

System properties

Premium centre seal system with 88 mm installation depth

Passive house suitability for white and coloured windows even in the standard variant (as set out in the ift guideline WA-15/2)

Outstanding thermal insulation values with steel reinforcements – for maximum sash sizes:

$$U_f = 0,95 \text{ W/(m}^2\text{K)}$$

$$U_w \text{ up to } 0,72 \text{ W/(m}^2\text{K)}$$

Thermal insulation up to U_f value of $0.88 \text{ W/(m}^2\text{K)}$ with additional insulators

Elegant, perfectly straight design for extremely modern triple glazings, functional glazing or residential door panelling up to 56 mm thick

Outstanding sound insulation up to 48 dB

Break-in test – up to resistance class RC 2

Three variants for trendsetting material combinations: AluClip, AluClip Pro and AddOn

High compatibility with System 76 double and centre seal

Optimised and resource-saving use of materials

Laminated: wood grains, solid and metallic colours or classic white

Lamination options: choice of outside laminated and thereby inside neutral white – or both sides laminated

PREMIDOOOR 76

THE NEW TRENDSETTER

The demand for lift/sliding doors is continuously growing. They are truly a premium product which significantly enhances the home and the quality of life. The large doors create a visual connection between the interior and the garden. They are child's play to operate and ensure high passage of light and high thermal insulation in equal measure.

We are continuously expanding our PremiDoor series offering in order to provide competitive advantages to our customers in the premium segment. Having launched PremiDoor 88 at the last FENSTERBAU FRONTALE, this time we are presenting the newest variant, PremiDoor 76 lux. In the course of converting to the new 76 mm system platform, the PremiDoor 76 lift/sliding was created as the successor to PremiDoor 70. The product, which will be available for delivery starting from the summer of 2016, is a fully optimised system with consistent five-chamber design which, thanks to its small installation depth of 179 mm, is ideal for renovations and can accept panes up to 48 mm thick. Slender sight lines – 65 mm on casement, 100 mm on sash and 103 mm on centre closure – ensure high passage of light. With a U_f value of $1.4 \text{ W}/(\text{m}^2\text{K})$, this innovative design delivers outstanding thermal insulation for lift/sliding doors, even in the standard configuration. A barrier-free threshold system is also

part of the standard package. The system's benefits are rounded out by the optional ability to combine it with upgrade technologies as well as large design latitude with the proCoverTec surface finish, decorative laminates or aluminium solutions. The lux design sash with its exceptionally slender sight line of 40 mm can also be used. At this year's FENSTERBAU FRONTALE, we were also presenting the PremiDoor 88 – a lift/sliding door with 88 mm installation depth and five-chamber sash and casement profile in flush look, which features an outstanding thermal insulation value of $U_f = 1.2 - 1.3 \text{ W}/(\text{m}^2\text{K})$.



AluClip Zero residential door



AluClip Zero flush-mounted look

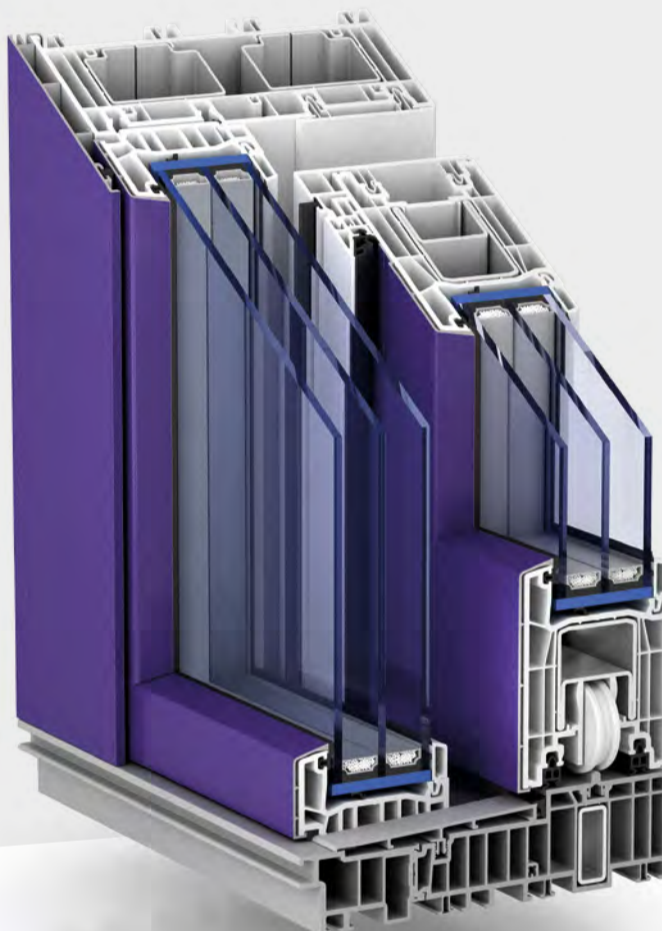


AluClip Zero wood-aluminium window look



PremiDoor 76 standard variant

pro **Cover** Tec protected by colour



PremiDoor 76 lux

System properties

Consistent five-chamber design with low installation depth of 179 mm

Barrier-free threshold system already in the standard variant

Ideal for renovations

Panes up to 48 mm thick

Slender sight lines: 65 mm on casement, 100 mm on sash and 103 mm on centre closure

Outstanding thermal insulation value $U_f = 1.4 \text{ W}/(\text{m}^2\text{K})$

Ability to combine with upgrade technologies

Lux design sash with exceptionally slender sight line of 40 mm



AluClip Zero full glass look

ALUCLIP ZERO PERFECT TECHNOLOGY AND NOBLE DESIGN

The innovative AluClip Zero aluminium cladding which has already been tested on different objects, is a design variant that is unique on the market – and therefore represents a genuine unique selling point for our customers.

Profine has developed three variants for windows: a cladding with a complete flush-mounted look and nearly flush glass level, one in a full-glass look, and one with a classic wood-aluminium look and the same glass level as with a fixed glazing. The matching residential door variant is designed

with complete flush-mounted look and, as a technical highlight, the panelling can be mounted with a “floating” configuration. That eliminates the risk of warping due to thermal stresses. We place very high priority on the compatibility of this product as well: many essential components from System 76 can be used. AluClip Zero significantly

expands the application range of System 76, particularly for architecturally demanding construction projects, and can score points precisely where the look of an aluminium profile is no less desirable than the functional product benefits of plastic.

A SYSTEM MAKES ITS MARK

CLEAR SAILING AHEAD FOR 76 MM



System 76
double seal standard variant



System 76
centre seal AluClip



System 76
residential door inward opening

Much has happened since the launch of our System 76 two years ago: we have consistently expanded its use in the standard market as a main system for our three brands and responded to the strong demand: a large number of our partners have already converted to 76 mm, and we have gained many new customers – an ideal proof of quality.

System 76 is available in both the double seal version and as a centre seal system with the same sight lines. Step by step we developed appropriate upgrade options, so the system now leaves no wish unfulfilled. The system meets even the most demanding requirements of new construction and renovations. Even its basic configuration features extraordinary performance characteristics – above all with regard to thermal insulation. This is borne out by the impressive results of testing by the window technologies institute ift in Rosenheim, Germany. The insulation values determined by ift for the standard version can even vie with systems well beyond 80 mm.

Our customers have also voiced high praise for the system and were able to achieve impressive results in tenders for highly prestigious objects: "Really good for a standard system, it brings us plenty of leverage in the high-volume market segment," some say, or also: "The system offers us virtually unlimited leeway for design and applications."

One of the reasons for the success of the new system undoubtedly relates to its modular configuration. It permits a wide range of combinations with different glazings, steels and ancillary profiles – and it does so with simple manufacture and convenient logistics.

The essential link between the two platforms with 76 and 88 mm installation depth is the extraordinarily high compatibility of

the systems. This enables window makers to make full use of a large number of synergies, for example through rational manufacturing and through simplified purchasing and warehouse management.

That's why we were presenting System 76 at the trade fair once again and in its many facets – also including special systems for various foreign markets.

76 MM FOR EUROPE

Italy and France

To satisfy the specific aesthetic requirements for windows in the Italian and French markets, profine has added a special variant of System 76 MD. It is characterised by sashes with slender sight lines and extras such as left sashes for casement sashes. The interior floating mullions are available in four different profiles along with visually matching design glazing beads. The new casement solution turns heads with its extraordinarily

slender sight line of 112 mm.

Casement balcony doors with locking door mechanism and lock cylinders with handles on both sides can be built with the narrow sash profile. Innovative threshold connectors are available for new and renovation frames. Along with an extensive assortment of new building and renovation frames, manufacturers can also make use of matching sill profiles and jamb trim for all standard interior insulation formats. An AluClip solution is also available for all systems.

Netherlands

With 76 K-vision, a new double seal system was developed for the Dutch window market. Based on the successful K-vision and System 76, its frames feature the 15° overlap bevels commonly used in the market along with a uniform contour width/depth ratio. The system targets for an U_i value of 1.2 W/(m²K) for the standard version and 0.8 W/(m²K) in the highest expansion stage. The profiles can accept glazing in thicknesses ranging from 16 to 48 mm. For colour design, along with the established films, the new coating technology proCoverTec will also be available.

The wooden window look which is so popular with the Dutch has been accommodated with a processing-optimised version. On the outside, the profiles are butt-joined as with traditional wooden window construction with tongue-and-groove joints.

The profiles are mitred. Two outer webs provide more welding points and thereby ensure a sealed steel chamber and greater corner strength. The first four profile geometries have already been available since the end of 2015, and the range will be completed by the end of 2016.

Russia

System 76 double seal was successfully launched in Russia in 2014. In addition to country-specific modifications for the locally produced geometries, there is also a special outer frame which meets the requirements of Russian high-rise building construction. An offset in the exterior exposed face permits perfect integration in multi-layered wall construction. On the interior face, a trim profile can be locked into place.

Switzerland

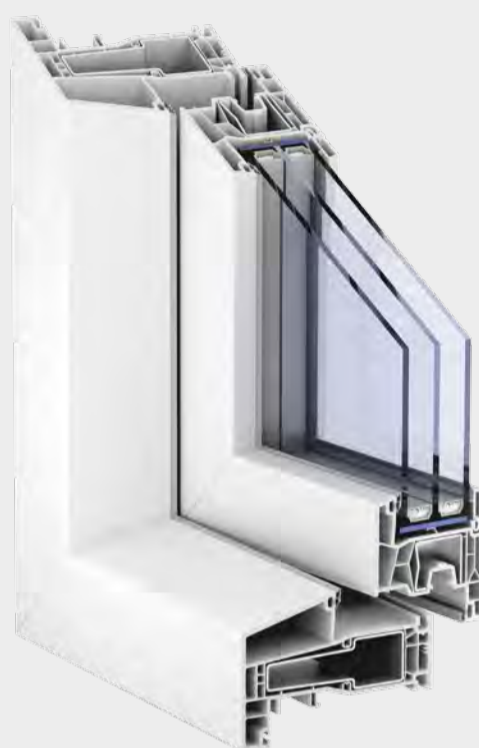
The Minergie label certifying the System 76 centre seal as an energy-saving window in residential construction has been available for the Swiss market since July 2015.



System 76 Italy



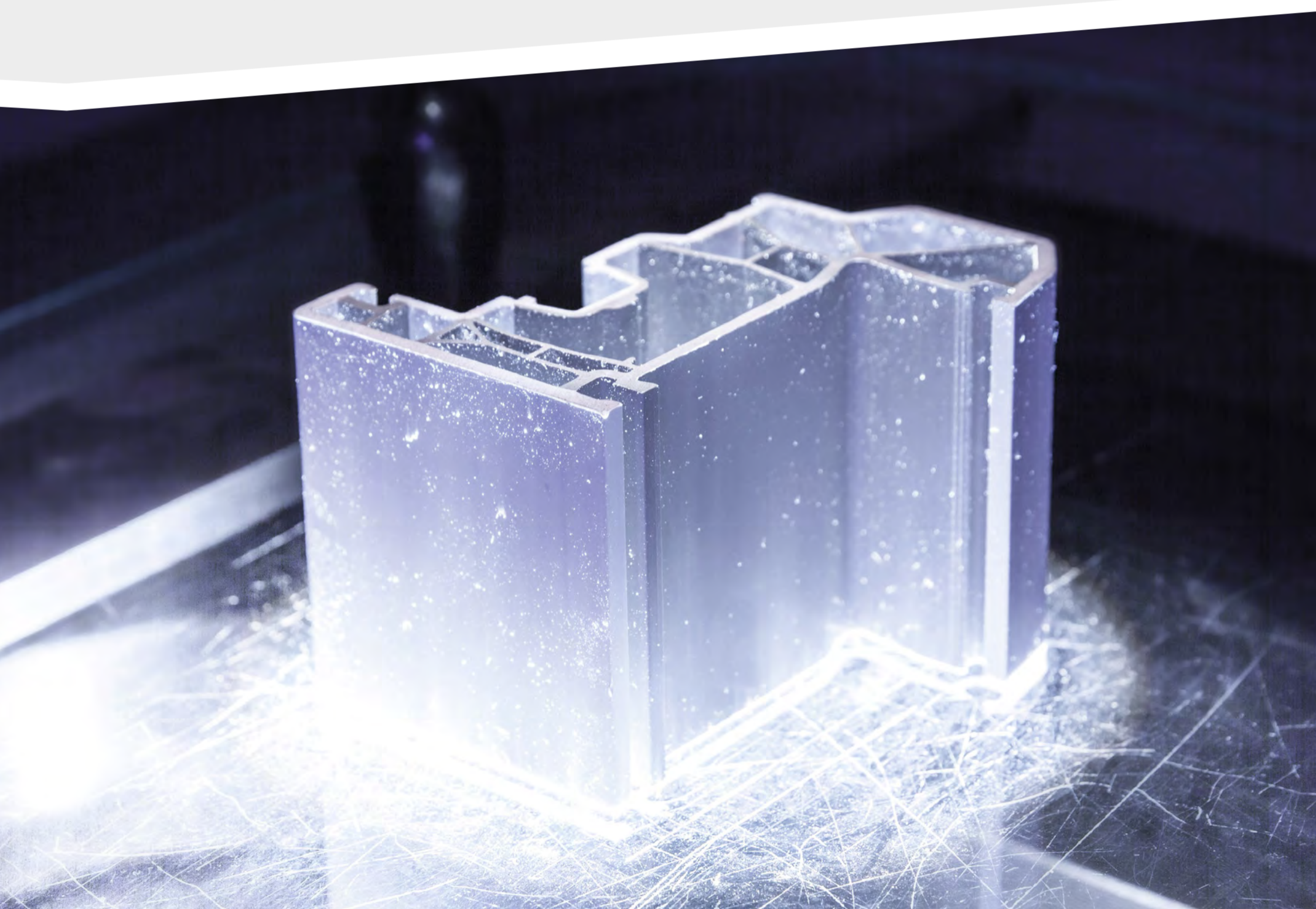
System 76 France



System 76 Netherlands



System 76 Russia



NAXOS MEDITERRANEAN CHARM AND HIGH FLEXIBILITY



With modern materials, the classic Mediterranean French shutter becomes a high-performance product. The French shutters from KÖMMERLING benefit from the outstanding material properties of PVC-U. They are especially low-maintenance and last almost indefinitely. They protect against prying eyes, wind and weather, heat and cold – and of course also against forced entry and burglary.

Moreover, the NAXOS series offers maximal variability and design latitude. The shutters are available in many different colours and wood grain looks, which means they can be integrated into any design concept. Panelling and slats of all kinds can also be incorporated. Closed or diagonal slats are possible, as well as panel or sheet inserts.

ROLLER SHUTTERS FROM KÖMMERLING HIGH-PERFORMANCE LIGHTWEIGHTS

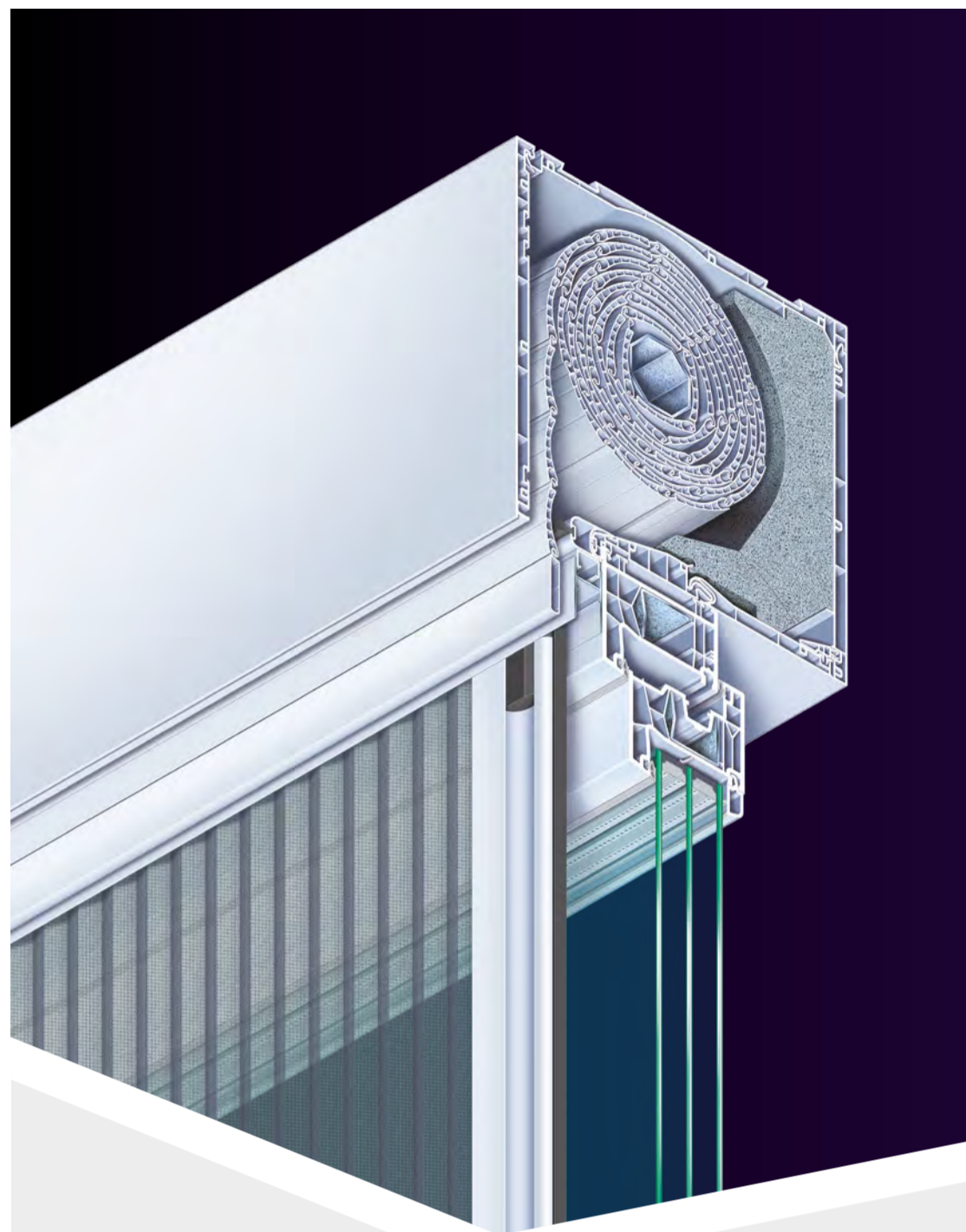


No matter whether it involves renovation, expansion or new construction – the installation of roller shutters is mandatory for many developers. Because they exclude both light and noise. In summer, they give shade; in winter, they increase thermal insulation; and fitted with suitable additions, they offer greater protection against forced entry.

Roller shutter slats made of PVC-U are the most commonly used profiles. The sophisticated shape of the KÖMMERLING roller shutter slats ensures an extremely high

degree of reliability and long service life as well as virtually unlimited design options. A combination of stable design and optimised use of materials, the roller shutters have a low weight and can therefore be used easily and effortlessly. And of course, the system also allows automated solutions.

The roller shutter systems from KÖMMERLING are resistant to all kinds of weather and can be cleaned if necessary with plain water.



VARINOVA THE ADD-ON ROLLER SHUTTER BOX WITH MANY TALENTS



VARINOVA NO INSECTS ALLOWED

Patio or balcony doors are a favourite port of entry for insects. For comprehensive protection against these irritating pests, we added an insect-detering pleated blind for doors to the VariNova product family. It uses the same package space as the insect-detering roller blind and therefore can be optimally integrated into the overall system. Thanks to its construction, the pleated blind needs no pivot area and therefore take up very little space. The insect deterrent can be left in place on the door all year round without impeding

access. It is very weather-resistant, easy to operate and nearly threshold-free.

Each of the different kits can be shortened individually. That means it can cover door heights from 185 cm to 235 cm and widths of up to 160 cm. In addition to these standard dimensions, we also fabricate to custom specifications on request.

The VariNova add-on roller shutter box can demonstrate its strengths both with the renovation of existing buildings and with new construction. It draws attention with a wide range of technical advantages and its very convenient design. Depending on the installation situation, the add-on roller shutter box can be opened toward the interior or with the roller shutter box

lid toward the bottom. That means the element can be plastered over on the exterior or the interior if necessary. If the roller shutter box has to be plastered over on both sides, then the add-on box which can be plastered over is used – and disappears into the masonry.

Different aluminium and PVC-U panels allow for customised colour and matching wood grained windows. All box sizes permit the use of 8 mm mini-slats and 14 mm maxi-slats. The retrofittable fly screen solution is yet another result of the consistent system approach. Designed especially for new construction, the VariNova add-on roller shutter box offers numerous ingenious solutions ranging from the box overhang to special ceiling mounting to static consoles.

The VariNova add-on elements excel the minimum statutory requirements for thermal insulation and are characterised by outstanding air tightness values: depending on the configuration, the add-on roller shutter boxes achieve sound insulation values of up to 44 dB.

The VariNova solution with exterior blinds offers not only privacy, but also the convenience of adjustable shade and an optional insect screen solution. The exterior blind box can be used for all standard 80 mm slats on the market. All variants permit the integration of the VariNova insect screen.



SHEET PRODUCTS FOR A BROAD RANGE OF APPLICATIONS

KÖMMERLING is not only a global brand for window profiles, but also for PVC-U sheet products.

In the building sector, the classic application areas for the internationally known KÖMACEL integral skin foam sheet are door and window elements, fascias, roller shutter boxes and non-transparent balustrade panels.

KÖMADUR has been considered the generic term for rigid PVC-U sheets in the industry for years now. The all-in-one solution is available in 5 variants and used in an ex-

tremely wide variety of applications, including as sandwich elements for balustrades and residential door panels. In such applications, it stands out due to its even, smooth and glossy surface finish.



IDEAL CONDITIONS FOR SITTING OUTDOORS



Footsteps, collisions, impacts, dirt and wear-flooring has to withstand a lot of punishment! And outdoor flooring is also subjected to the weather– for example on the verandas known as porches, which are popular in the USA. For its KOMA product line, KÖMMERLING has developed Porch Flooring boards made with the unique Celuka extrusion process. The boards do not splinter or rot and withstand even extreme stresses. Our porch flooring products are also visually appealing: they are available in a classic

wood grain look – grey or cedar – and can also be painted however the customer wishes.



KÖMATERRA SCALA | PERGOLA SATISFIES SIMPLY EVERY WISH



To be outdoors and still have a roof over your head – the KömaTerra SCALA PERGOLA system makes personal garden dreams come true. These roofing systems made of powder-coated aluminium fit in any environment, and their manually operated roof slats can be repositioned in just a matter of seconds. This makes it very easy to control sunlight transmission, shade and protection from rain as need be. The system is available in 11 variants. And the colour selection also leaves no wish unanswered: 20 standard and 300 additional RAL colours are available – choose once, never paint again.



Slats closed
Protection from rain and sun



Slats 45° open
Shade and ventilation in case of intense sunshine



Slats 130° open
Divert sunlight to control the temperature



Slats 90° open
Enjoy air and sunlight naturally



KÖMATERRA SCALA CUSTOMISED GATES AND FENCES

Gates and fences do not have to be off-the-shelf products. KÖMMERLING has developed a system that permits an extremely high degree of customisation. Eight basic collections constitute the starting point for a large number of different variations. The range comprises hinged and sliding gates with or without drive. All components are manufactured to order and delivered as an installation-ready product set.

Made of lightweight, stable aluminium, the gates and fences are finished with a special powder-coating that ensures very long service life and excellent weather-resistance. And that finish can also be perfectly matched to the specific installation site, because the colour palette comprises more than 250 colours.



KÖMAPAN A CLASSIC JACK OF ALL TRADES

The KömaPan tongue-and-groove profile has proven effective for more than 30 years now as a jack of all trades in exterior and interior applications. Its outstanding material properties enable a large number of application options, for example as yard gate panelling, cladding for facades, gables and attics, balcony panelling or also for privacy and sound insulation. The massive profiles are especially well-suited for outdoor use, because along with extremely high stability they also offer optimal design possibilities through

weather and UV-resistant surface laminations in many different colours and structures.

Extremely durable and maintenance-free, KömaPan is an economical and high-value solution: the material is dimensionally stable, does not swell, and does not flake, and the colours do not fade. KömaPan resists all adverse conditions such as moisture, chemicals, environmental effects, UV radiation and pests.

LOCKSTAR SAFETY HANDLE LIKE NO OTHER

In order to meet the rising demand for security, we have developed the innovative LOCKSTAR window safety handle – a simple solution for securing windows and balcony doors in residential and office buildings. LOCKSTAR is the only window handle that combines the advantages of a mechanical handle locking device with those of an alarm function.

In developing this product, we paid particular attention to high-quality construction and maximal functional reliability, because especially when it comes to security there's no room for compromise. While the locking device is in place, the innovative LOCKSTAR sensor system monitors any mechanical effects relative to the window, glazing and fittings. That makes a separate glass breakage sensor superfluous, and the less-than-attractive adhesive magnet is likewise a thing of the past.

Integrated LEDs display discreetly but clearly: LOCKSTAR is on guard! It also works when the window is tilted open – another unique product feature. The handle is simple to install and requires no electronic calibration. The universal design for DIN L and R with adjustable pin length permits retrofitting to nearly all tilt and turn windows, regardless of the manufacturer.

The large number of different handle designs with three surface variants offers the

customer an extremely broad selection in terms of design. One highlight in that regard is the version in which the functional window handle is harmoniously integrated into the window sash.

Additional variants permit an extended functionality and sensor system, for example for temperature and relative humidity. In that case, a special module communicates via Bluetooth with other devices to enhance security and convenience, e.g. for heating and ventilation. A high-end variant of the LOCKSTAR range, which will be available starting from summer of 2016, will offer full compatibility with leading smart home standards.



LOCKSTAR

Safety handle
LOCKSTAR



ACCESSORIES: MORE CHOICE – MORE SALES

As a system provider, we take a holistic view of windows and doors. That's why we offer our customers not only profile systems, but also a broad range of ATG products. The acronym stands for Accessories and Traded Goods.

Since the start of 2016, we have been consistently expanding our ATG area. The goal is to optimise the accessories line for all aspects of the home. The expanded range provides profine customers with a broad portfolio and therefore additional turnover. Along with innovative products for retrofitting and equipping windows and doors, pre-configured kits in the areas of privacy, balcony, fence and small buildings in the garden are also part of the range.

A safe choice

In the area of complementary system accessories, the assortment has been expanded to include numerous innovative solutions designed to support the manufacturers and installers in their everyday work. These include pre-assembled floor recess profiles made of high-strength polyurethane, aluminium exterior window sills made to order, and also sundries such as the dimension checker or gap seals.

proEnergyTec extension profiles



CERTIFIED

Through exclusive use of original profine accessories, profine customers ensure that profine brand windows maintain their high quality standards as certified in the type examinations. Original profine accessories are identifiable by the profine brand label or the profine certified label, which is granted only to selected accessories suppliers.





KÖMMERLING[®]
+Fenster-Profis

JOINING FORCES FOR PERSUASIVE IMPACT



More than 20 years ago, we established the KÖMMERLING+Fensterprofis (Window Pros) partnership. Since then, we have provided marketing and sales support to dedicated window manufacturers – thereby offering them visible differentiation from the competition. Together with these partners, profine develops individual marketing operations concepts and also incorporates them in nationwide marketing actions in Germany. A recent example of this is the current brand and loyalty campaign in high-circulation public print media. With this action, we are responding to the increasingly aggressive pricing practices of competitors from Germany and abroad.

Moreover, KÖMMERLING is active as a sponsor: at the start of the German professional football league's season, we expanded our partnership with the Mainz 05 football club and have now become their main sponsor. Dr Peter Mrosik explains the reasons for this commitment: "The aim is to strengthen our partners in the market through advertising aimed at end customers. We made a conscious decision to use our KÖMMERLING brand for the jersey sponsoring here because it allows us to build on its strong name recognition in Germany. It will further raise developers' and renovators' awareness of KÖMMERLING as a premium window system, thereby giving our customers a competitive edge."

IMPRESSUM

Published by:
profine | International Profile Group
Mülheimer Straße 26
D-53840 Troisdorf, Germany

Phone: + 49 (0)2241 9953-0

Fax: + 49 (0)2241 9953-3561

www.profine-group.com

info@profine-group.com

FENSTERBAU FRONTALE 2016

Thank you very much for visiting our stand!







