

NEW TARGETS IN VIEW

Our business unit Semi-Finished Products encompasses not only the fields of sheets and shutter systems, but now also a new line: Customised Profiles and Systems, or CPS for short. This testifies to the importance of permanent innovation – for our company and the whole sector.

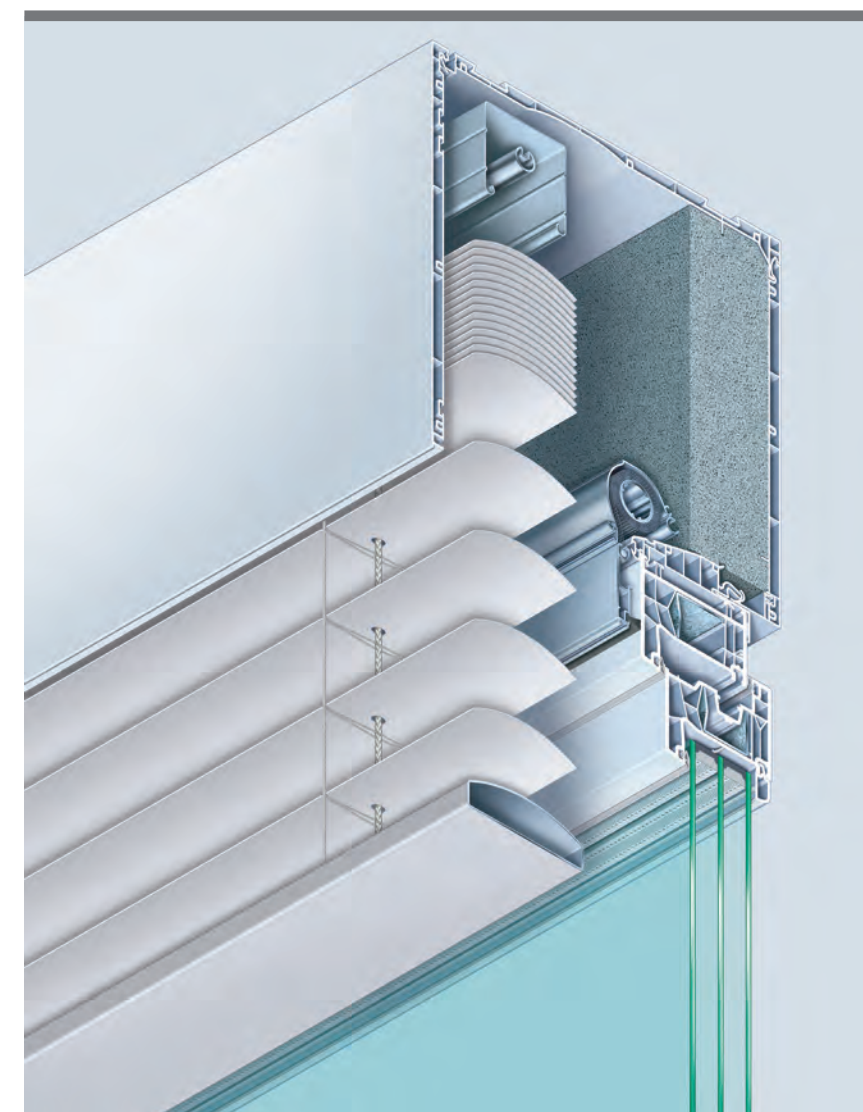
Our KömaCel has made us a pioneer for integral skin foam sheets, a role that we are

continuing even today, and our KömaDur has been synonymous with rigid sheets for many years. To date, these products are used primarily in advertising and on the building sector. Yet here too, of course, we are always looking ahead. For the future, we have our sights set on further industrial applications and the promotion of our building profiles line.



TREND AND INNOVATION
WITH OUR SHEETS YOU EXPERIENCE BOTH!

At the profine exhibition stand, experts from this business unit will be pleased to offer you competent advice on all aspects of sheets and semi-finished products.



Shutter systems INNOVATIVE COMFORT

In a consistent vein, profine is also continuing to refine its shutter systems programme and will be exhibiting its latest solutions for this sector at fensterbau/frontale. The highlight is a VariNova add-on box on an element from the new System 76. The installed rails are finished with the innovative proCoverTec method.

VariNova solution with exterior blinds: privacy, regulated shade, optional insect screen facility.

Moreover, architectural aspects combined with functional use are also growing in importance. Consequently, we will be presenting a VariNova solution with exterior blinds. This not only safeguards privacy, but also offers the comfort of regulated shade and an optional insect screen facility. Allowing a range of fastening options, the exterior blinds box is suitable for all conventional 80 mm slats on the market.

EDITORIAL

Welcome

to fensterbau/frontale 2014 in Nuremberg! "Gaining in strength. For you" is not only our exhibition motto, but exactly what we have been doing these last few months. We have been gaining in strength, for you, our customers, for our mutual success. This affects quality, logistics processes, and product development at profine.

For instance, today we can present not only our new System 76 for the high volume standard segment, but also special applications like the innovative finishing proCoverTec and premium products like PremiDoor 88 for the upmarket segment. You can learn more about our innovations not only live at our exhibition stand, but also in detail on the following pages.

Our new stand concept is to demonstrate clearly that we have been working on ourselves, that profine so to speak has reinvented itself.

We are expecting thousands of guests from all over the world and are looking forward to highly motivating talks. We hope that our products will inspire you!

Yours

Dr Peter Mrosik
Owner and CEO



The standard double seal variant of System 76



System 76 INTO THE FUTURE WITH 76 MM

Profine is yet again setting standards. We present our new flagship: the trendsetting profile system for PVC-U windows with 76 mm installation depth. Not only was this system developed as a "Best in Class" solution, it has been our most significant new development for nearly fifteen years. It marks a key milestone in our investment offensive. Maximised thermal insulation in standard

windows, slender profile sight lines for large glazed areas and solar gains, ultra modern functional glazing up to 48 mm thick, and an efficient design for simplifying work – all united in the new system generation under the brand names KBE 76, KÖMMERLING 76, and TROCAL 76.

In a standard window, the double seal variant of this system already exhibits an outstanding thermal insulation value of

$U_i = 1.1 \text{ W/(m}^2\text{K)}$, which the centre seal version will even improve on with its $U_i = 1.0 \text{ W/(m}^2\text{K)}$.

The sound insulation, too, has been optimised – thanks not least of all to the option of integrating panes up to 48 mm thick. The double seal variant achieves up to 47 dB, the centre seal variant up to 48 dB.

Continued on page 2

The future of windows in strong brands:



KÖMMERLING®



INFO

For further details:
www.profine-group.com/fensterbau2014



GAINING IN STRENGTH. FOR YOU.

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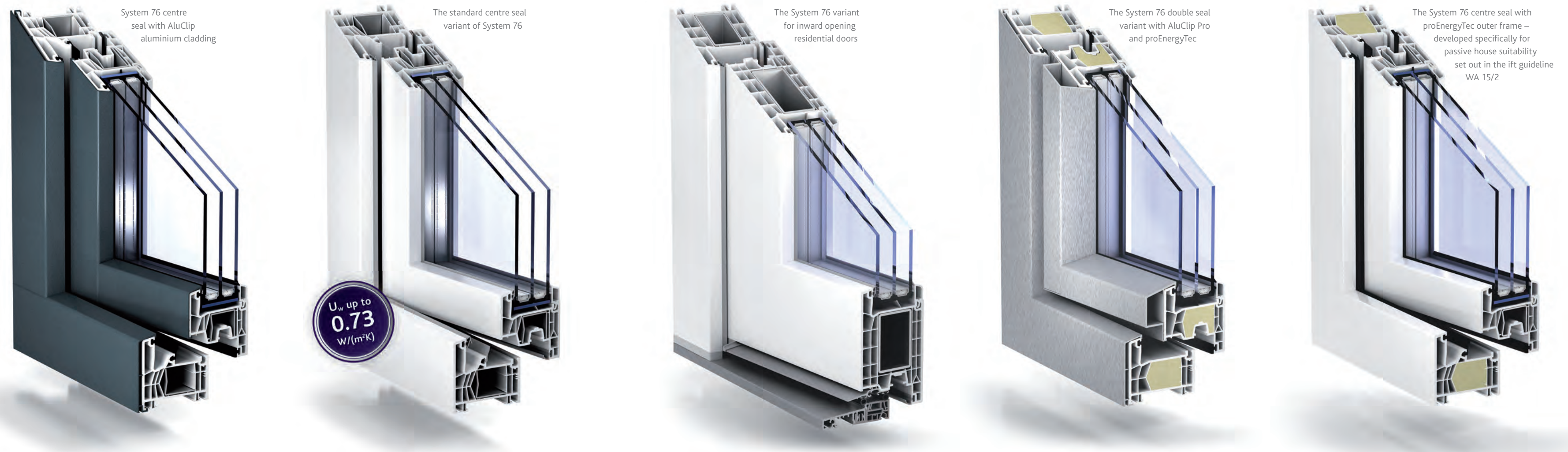
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"If you've been observing the trends at system manufacturers in recent years, it'll have occurred to you that the programmes have mostly been supplemented on the premium segment, in other words with installation depths beyond the 80 mm mark. According to our market research, however, systems between 70 and 78 mm make up virtually 70% of the European windows market." Stefan Schäfer, Head of Corporate Product Management & Marketing at profine



System 76 SINGLE SOURCE SYSTEM

Modular system

Dr Peter Mrosik, owner and CEO of the profine Group: "We have reorganised ourselves as a company, and now we have developed a window system that is as pioneering as it is marketable. Its particular features include not only an outstanding functional performance, but also modularity that our market partners can only benefit from. Backed by our unique, wide, and efficient range of products, we can offer our customers a set of modular system components that leave no wish unfulfilled. Their specifications are matched only by systems with a considerably larger installation depth."

profine has created a universal window and door system that on the one hand offers a high level of compatibility and flexibility with respect to glazing, steels, and ancillary profiles. At the same time, its upgrade technologies provide a great many options for designer features, enhanced static properties, and more effective insulation.

"The installation depth of 76 mm is suitable for both renovations and new buildings," explained Stefan Schäfer, Head of Corporate Product Management & Marketing at profine. "The excellent insulating

values of this profile find the perfect complement in the slender sight lines, a facility for large pane thicknesses, and an intelligent design, culminating in a window with unbeatable energy efficiency. A window that is ideal for the high volume standard market segment."

Also the look and feel of the new 76 mm system is in perfect keeping with its targeted role of market leader. The rich diversity offered by a wide range of colour laminates and the innovative combinations with aluminium offer architects, developers, and planners all the freedom they need for their own designs.

Bright prospects

Dr Mrosik stressed the significance of this new development: "By channelling our expertise in the development of this trend-setting system and aligning our product quality and logistics consistently to the highest demands, we have created yet another basis that will strengthen the position of our partners in the competitive arena. The feedback from our customers has shown us that the 76 mm system has met with resounding acceptance on the market."

from inclined webs and a specially shaped steel reinforcement. The standard design presents a sight line of 116 mm, and even 108 mm is possible in combination with a

Double seal

The double seal version of this system features five profile chambers and a pseudo chamber in the outer frame or sash formed

slender sash. In designing the profile contours, we opted for the classical form with clear-cut edges. Planned are two sash variants, one with a slight curvature, the

The double seal variant of this new profile system has been available since January 2014 under the brand names KBE 76, KÖMMERLING 76, and TROCAL 76. The centre seal version will follow in April 2014. For this offensive, profine has invested in a total of over fifty profile geometries and ancillary articles.

other semi offset. With the standard version alone exhibiting an outstanding U_i value, U_w values as low as $0.76 \text{ W/(m}^2\text{K)}$ can be realised. This is a considerable perfor-

mance that otherwise is matched only by installation depths of 80–85 mm. The system is therefore perfectly ideal for renovations. It is especially here that designs with larger installation depths are constantly causing problems.

Centre seal

Our company has quite deliberately decided not to design a combined system, but to offer at the same time a separate six-chamber centre seal system.

The cover over the centre seal is now 4.5 mm, providing considerably greater security than combined solutions. At the same time, the system can be processed much faster. Also the centre seal receiver has been optimised, giving rise to a larger collecting chamber for penetrating water. Concealed hardware can be used as an alternative to the standard fittings.

The centre seal variant presents the same sight lines, yet its six chambers and $1.0 \text{ W/(m}^2\text{K)}$ return an even better U_i value on a standard window. With the corresponding equipment, U_w values as low as $0.73 \text{ W/(m}^2\text{K)}$ are possible. As in the double seal variant, a crucial contribution is provided by the glazing rebate gasket. There

are plans for combinations with foamed proEnergyTec profiles. The aim: to achieve the values defined in the ift guideline WA 15/2.

Doors and variants

It goes without saying that System 76 is also suitable for the design of residential, balcony, terrace, and parallel sliding-tilting doors. They also guarantee outstanding thermal and sound insulation values as well as excellent protection against weathering and driving rain.

The System 76 mullion and floating mullion solutions fulfil all load bearing and thermal insulation requirements and present slender sight lines of 84–110 mm.

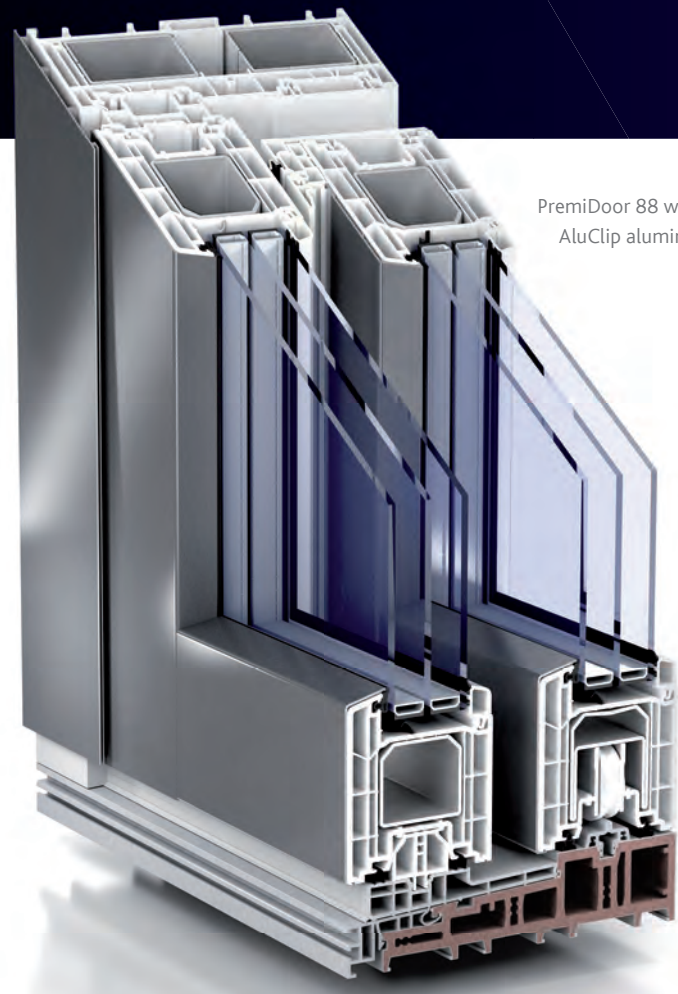
Our extensive laminate programme and innovative proCoverTec offer a wide range of colours to choose from. In Nuremberg, we'll be presenting proCoverTec as a sample in the 76 mm system.

System 76

- ▶ Two systems: double and centre seal
- ▶ End to end system for the launch
- ▶ On the highest-volume market segment
- ▶ Applications in new buildings and renovations
- ▶ "Best in Class" – top of the class for test results
- ▶ Even on a standard window, the double seal system exhibits a heat transfer coefficient U_i of $1.1 \text{ W/(m}^2\text{K)}$, which is reduced even further to $U_i = 1.0 \text{ W/(m}^2\text{K)}$ in the centre seal system
- ▶ Glazing up to 48 mm thick
- ▶ Wide range of colours

Expansion variants

- ▶ AluClip – aluminium cladding
- ▶ AluClip Pro – aluminium cladding with static properties
- ▶ AddOn – compound sash
- ▶ proEnergyTec prefoamed profiles
- ▶ Passive house solutions
- ▶ Residential door solutions
- ▶ proCoverTec – innovative surface
- ▶ Ventilation solution in the centre seal system



PremiDoor 88 with AluClip aluminium cladding

GAINING IN STRENGTH

PremiDoor 88 A HUGE HIT ON THE PREMIUM SEGMENT

The demand for our lift/sliding door PremiDoor is constantly on the rise. In response, we are continually expanding our range of offers for PremiDoor 88, providing our customers with additional competitive advantages on the premium segment. The latest variant is PremiDoor 88 lux.

PremiDoor 88 is the name we gave to our lift/sliding door system with a high level of thermal insulation, an installation depth of 88 mm, and a flush mounted five chamber sash and casement design. Its U_f value of 1.2–1.3 $W/(m^2K)$ guarantees excellent energy efficiency. Even a passive house compatible U_o of 0.8 $W/(m^2K)$ can be achieved with special glazing. Elements are possible with heights up to 2.9 m and standard widths of 6.5 m.

Sound insulation values as high as $R_w = 45$ dB are achieved. Besides the System A version, PremiDoor 88 is available for the C, G-A and K versions as well. All of these variants can be ordered in white, in laminate colours, and with aluminium cladding.

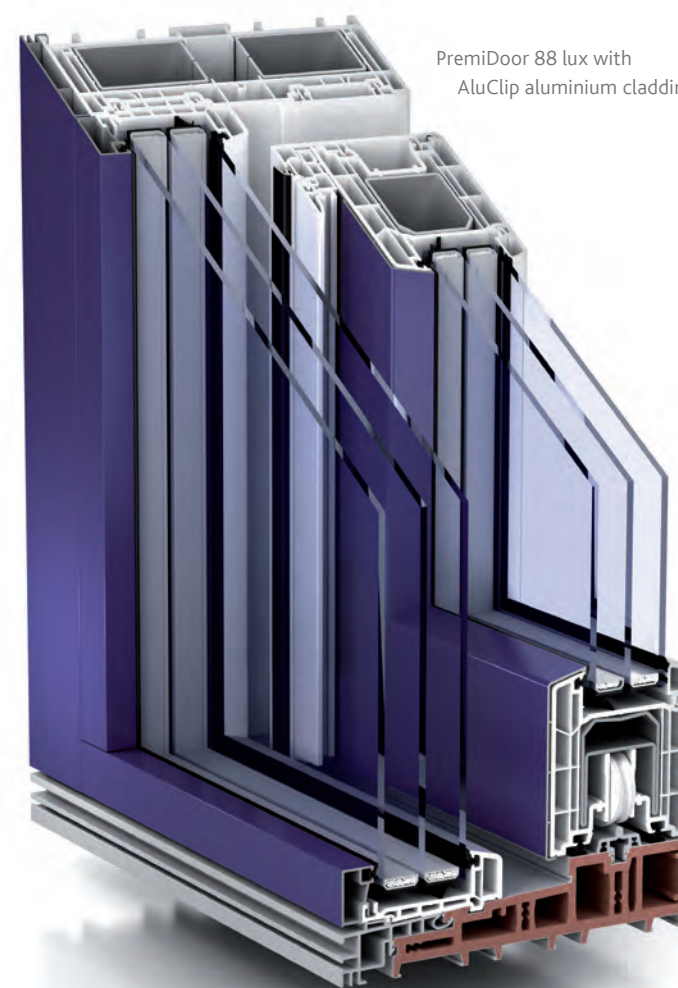
The PremiDoor 88 lift/sliding door from profine not only presents an excellent design and handling ease, but also returns outstanding test values. A System A element 5.06 m wide and 2.93 m high has now been rated

E 750 by ift Rosenheim for its tightness against driving rain. In other words, it is impervious to water, even under 750 Pa. In the wind load test, the element achieved Class B2, and its air permeability corresponds to Class 4. Test values that are excellent for a lift/sliding door.

► PremiDoor 88 lux – more light

For applications requiring greater transparency and fewer visible profiles, profine will

be presenting the new variant, PremiDoor 88 lux, in Nuremberg. The System A version does without a fixed sash. Instead, it features a fixed mullion and large fixed glazing fitted with aluminium glazing beads attached to the outside. The results are particularly slender sight lines of 95 mm in the side frame and, true to its name, a greater passage of light.



PremiDoor 88 lux with AluClip aluminium cladding

System properties | PremiDoor 88 lux

- Casement, five chamber profile – installation depth 207 mm, sight line 65 mm
- Sash, five chamber profile – installation depth 88 mm
- Very slender sight line of only 100 mm
- Designed for optional external glazing
- Glazing rebate for triple glazing up to 54 mm
- Special thermo gasket in the glazing rebate
- Large scale steel reinforcements for optimised positive action connections
- Closed sash contour for high profile stability
- Concealed drainage downwards
- Larger glazed areas, greater passage of light, in line with the architectural trend
- Glazing up to 54 mm thick
- Fixed glazing for sashless slender sight line
- Higher solar energy gains
- In the colour white, with woodgrain and plain colour laminates, and with aluminium cladding
- Easy to open as if sliding on air
- Maximum installation sizes
- More cosiness

protected by colour



proCoverTec MORE THAN COLOUR

Colour and function in one – our innovative surface finishing upgrades conventional window systems. proCoverTec gives profiles an individual face and provides permanent protection against wind, weather, and UV radiation.

ProCoverTec is not simply a colour, but a colourful and functional premium surface developed specifically for PVC. There are 22 different colours to choose from. The surface receives its outstanding product attributes from a combination of system engineering, application knowhow, and a new type of liquid synthetic material. The cured surface provides permanent, versatile protection for

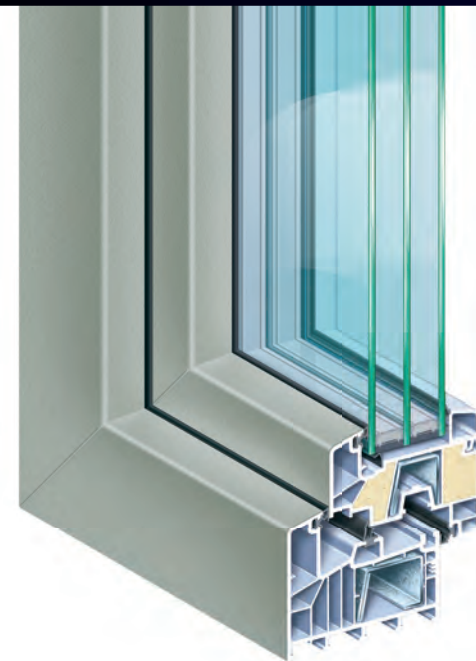
the window. Thanks to proCoverTec, profiles not only repel dirt, their refined surfaces are also easier to clean. In addition, the window is less prone to excessive heating and retains even better its dimensional stability.

The finishing can be applied either to the outside or as a full cover. This finishing extends to the outside and inside surfaces as well as the visible rebates. The proCoverTec liquid synthetic material was developed exclu-

sively for profine. The patent for this process is pending. proCoverTec profiles in the systems K-vision (Netherlands), PremiDoor 70, and PremiDoor 88 are already undergoing tests on actual buildings. At fensterbau/frontrale 2014, we'll be presenting samples with the innovative surface for the new System 76 as well.

Advantages at a glance

- Refines surfaces with liquid synthetic material thanks to an innovative process
- Repels dirt and is easy to clean
- Reflects heat
- Retains permanent colour stability
- Presents a refined satin look for a high quality character
- Can be combined with 22 different colours
- Embodies the perfect look, tactile qualities, protection, and easy care



The KOMMERLING 88plus variant for passive houses as set out in the ift guideline WA 15/2



KBE System_88mm with recycling core



AddOn – enhanced functional value and individual design – here in the new System 76.

AddOn compound sash

ADDED VALUE AND FUNCTION

88 mm systems GUARANTORS FOR THE HIGHEST DEMANDS

The 88 mm systems of our KBE, KOMMERLING, and TROCAL brands have established themselves on the upmarket segment. This shouldn't come as a surprise. As premium systems, they exhibit excellent properties that leave nothing to be desired in design or functionality.

Our 88 mm systems are mainly characterised by their high quality profile design and six chamber technology. A chamfered steel reinforcement can be integrated to form an additional seventh chamber in the profiles.

The KOMMERLING 88plus and TROCAL 88+ systems are designed as centre seal systems, and KBE System_88mm is a combined system whose double seal system can be modified to a centre seal system.



The TROCAL 88+ system variant with AluClip aluminium cladding

All systems fulfil the requirements of developers who want an elegant window design and expect functional properties on a high level. Architects can choose from appealing design options for creative projects, and end customers can look forward to the highest level of comfortable living.

Bright and warm

Our 88 mm systems present a convincing range of slender sight lines, safeguarding the unrestricted passage of light. And thanks to their six chamber technology, they also exhibit enhanced thermal insulation. The thermal insulation values start at $U_t = 1.1 \text{ W/(m}^2\text{K)}$ in the standard double seal version. Optional insulation cores or foamed proEnergyTec profiles can be installed for improving these values even further up to passive house suitability as set out in the ift guideline WA 15/2 and the Dr Feist passive house standard.

Our 88 mm profiles are also setting the highest standards in sound insulation, protection against forced entry, and protection against weathering. They can take a wide range of special and standard glazing (up to 54 mm), and their locking plates can be reliably anchored and supported.

Highly flexible

The 88 mm systems can also be manufactured with RAL certified bonding technology. All of the usual bonding positions like the rebate base, glass edges, and Position 1 have been certified by the RAL quality control association. It is also possible to use aluminium cladding and an AluFusion variant. On the AluFusion variant, the aluminium profile provides excellent load bearing

properties in a quality design. The PVC sash profile also supports the additional requirements of a high performance profile system – for instance high thermal insulation.

The design potential leaves nothing to be desired: Besides a huge range of colour and wood grain laminates, the aluminium variants can fulfil virtually any colour preferences.

The five chamber residential door systems with 88 mm installation depth are available as inward opening and outward opening variants. Not only that, we have also developed an innovative solution for the simple and fast attachment of self-adhesive inter-sash residential door panelling. On this variant, the design of the residential door is characterised by the absence of the sash in the exterior view.

Panelling up to 50 mm thick can be fitted, so that excellent thermal insulation is guaranteed. The last expansion stage takes the form of a solution conforming to passive house standards.

One installation depth – wide range

The systems for the three brands were designed to meet the specific requirements of the respective clientele and markets. They all belong to one family, have many things in common, but feature their own highlights and distinctive features. Depending on the brand, a wide range of variants is available:

- ▶ Standard versions in double seal (U_t max $1.1 \text{ W/(m}^2\text{K)}$) and centre seal (U_t max $1.0 \text{ W/(m}^2\text{K)}$)
- ▶ Residential doors
- ▶ Thermal combinations
- ▶ Passive house solutions for windows and, partially, residential doors
- ▶ Aluminium cladding
- ▶ AluFusion – functional aluminium cladding
- ▶ proEnergyTec – foaming
- ▶ Bonding technology – RAL certified
- ▶ Inter-sash residential door panelling
- ▶ Wide range of colours with colour laminates and aluminium cladding
- ▶ AddOn aluminium compound sash
- ▶ Ventilation solutions

Colour laminate offensive DOUBLE THE CHOICE OF COLOURS

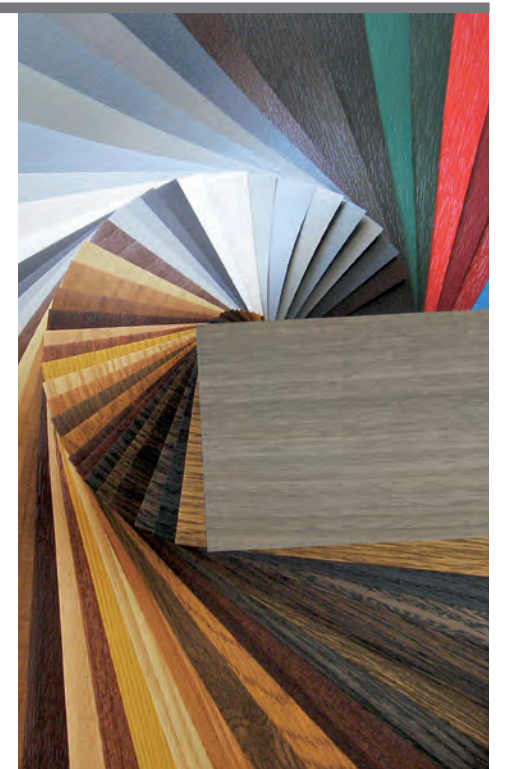
We have proactively taken up the key colour trends as a further boost to our partners' competitive strength.

The number of colours available for the systems of our three brands KBE, KOMMERLING, and TROCAL has practically doubled, from 44 to 87 laminates. With this colour laminate offensive, we'll be adopting a new position in the field of colours as well, providing our partners with even more opportunities on the market.

The new laminates present a wide range of wood grains, plain colours, and metallic colours. The grey hues in particular are currently enjoying huge demand and are available in a wide range. The programme offers smooth, matt, and brushed surfaces in addition to the classical embossed laminate structures. The colour laminate offensive also serves to

rearrange our delivery classes, offering our customers reliability and diversity in equal measure.

The former 44 colours are available for all systems, without surcharge on the laminate prices. The 43 additional laminates will be delivered ex works (profine GmbH) within twenty working days. A surcharge usual on this sector will then be added to the laminate price.



Excerpt from the current laminate colour range 2014



proEnergyTec – here the TROCAL 88+ system – passive house suitability as defined in ift guideline WA 15/2.

proEnergyTec DOUBLE THE EFFICIENCY

The proEnergyTec process developed by profine brings significant progress in production and insulation: The customer receives a profile with full thermal insulation. This means considerable time savings for the manufacturer. There is absolutely no need for the subsequent installation of insulators. The profiles are trimmed, welded, and cleaned

in the usual manner – a further advantage for cost effective manufacture. proEnergyTec not only saves valuable time, it also enhances insulating values when compared with manual inserts. Window makers can therefore efficiently achieve passive house suitability as set out in the ift guideline WA 15/2.