



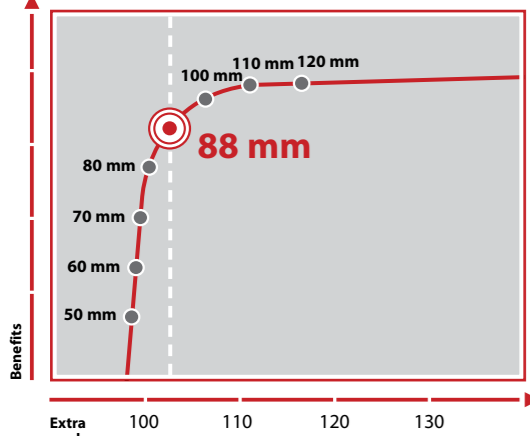
# KBE System\_88mm

Achieving top values



Start the future!

### The cost-benefits ratio of various installation depths

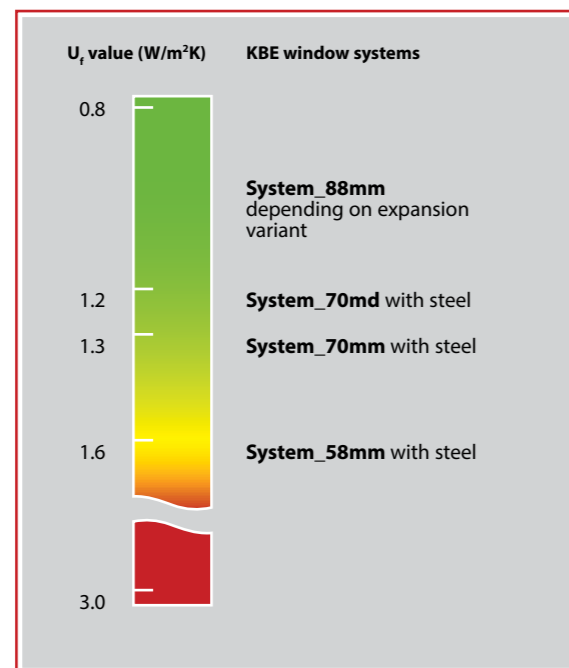


Improvements to the physical properties based on the window profile's installation depth come up against their limits at 88 mm under economy and sustainability aspects.

**Extra work:** Increased production work based on a 60 mm window system (= index 100).

**Benefits:** The window's physical properties, e.g. thermal insulation, improved as a result of the PVC-U profile's installation depth.

### Comparison of Uf values for window systems



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KBE System\_88mm





## ***A new dimension as the standard***

### KBE System\_88mm

The KBE System\_88mm fulfils the high demands that today affect a modern PVC-U window system. Whether energy efficiency, environmental conservation, sound insulation, or protection against forced entry, these are aspects that formerly had little importance, but today enjoy the highest priority. Centre stage is taken by the sustainable handling of our environment's resources, in both manufacture and use.

By choosing the KBE System\_88 mm you have opted for high quality windows that offer you the maximum quality of life and so incorporate economy, environmental conservation, and thermal insulation in equal measure.

The window system with the optimal installation depth of 88 mm is setting new standards.

*KBE System\_88mm represents the highest quality of living, new design oriented forms of creative, aesthetic building, and the optimal economy.*





## Functionality as an intelligent solution

Windows with KBE System\_88mm profiles are far more than a connecting element between inside and outside. They are open to light and unimpeded views, yet closed to sound and driving rain and provide effective protection against forced entry.

The KBE System\_88mm provides exemplary functionality in all of these disciplines. It combines ultra modern thermal insulation, efficiency, security, functionality, and longevity. In every respect therefore the System\_88mm is an intelligent solution.

*KBE System\_88mm –  
The PVC-U profile for demanding,  
design oriented building.  
Lean sight line and perfect  
proportions.*

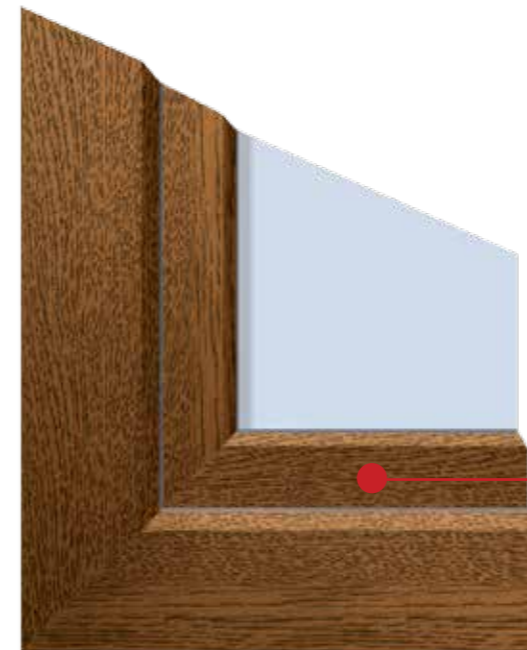
- » The special structure assures maximum functionality.
- » Its enhanced static properties and optimised profile structure make the KBE System\_88mm robust and long lived.
- » Particularly eco friendly and economical thanks to low resource production processes and superior insulating properties



# Freedom

## as a design principle

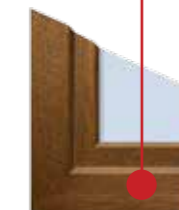
Modern architecture demands window solutions for maximised freedom of design. The highlights of the KBE System\_88mm are its maximum flexibility and stability. The advanced profile structure ensures an exceptionally high intrinsic stability. So also large window sashes can be integrated without problems. In combination with our range of wood grain laminates and plain colours there are no limits to the creative design ideas of architects and homeowners.



A wide range of wood grain laminates and plain colours. One example of many: Golden oak.



Grey



Golden oak



Anthracite grey



Dark green



Sapeli



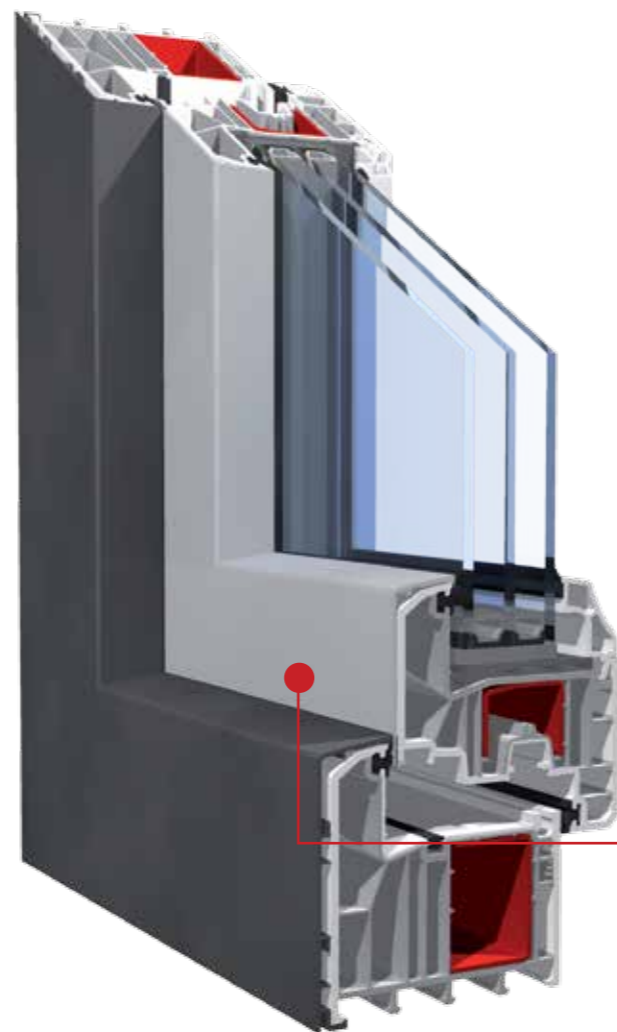
Walnut

- » The exceptionally elegant window look assures a harmonised overall presentation.
- » The enhanced static properties of the KBE System\_88mm profiles allow the design of particularly large windows.
- » The KBE System\_88mm is available in a wide range of colour and laminated variants.
- » The modern design with chamfered edges presents a timeless look.

*KBE System\_88mm – that good feeling and the certainty of having chosen the right extent and the right product – for today and in the future.*

# Combination as an advantage

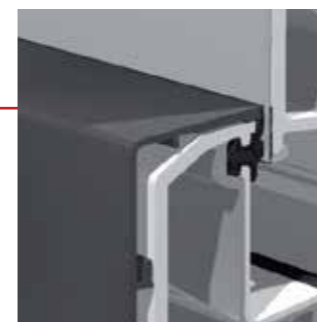
The appealing features of the innovative and ultra modern KBE System\_88mm are its maximum flexibility in both functionality and design. Accordingly it is also available as a composite system with attached aluminium covers. The KBE System\_88mm ALUSTAR therefore unites the advantages of the two materials PVC-U and aluminium: the combination of superior thermal insulation provided by a PVC-U profile and the general and weather resistance of the attached aluminium cover. Moreover this composite system opens up a virtually unlimited range of colours – the attached aluminium covers can be painted, powder coated, and anodised in all RAL colours. This union of the KBE System\_88mm PVC-U profile and the attaching aluminium cover therefore combines several advantages at once.



- » High quality aluminium design with top values in sound and thermal insulation
- » Finishing techniques like anodising and powder coating offer unlimited potential in the choice of colours
- » Excellent general and weather resistance thanks to the clipped-on aluminium cover



The KBE System\_88mm ALUSTAR provides a virtually unlimited range of colours.


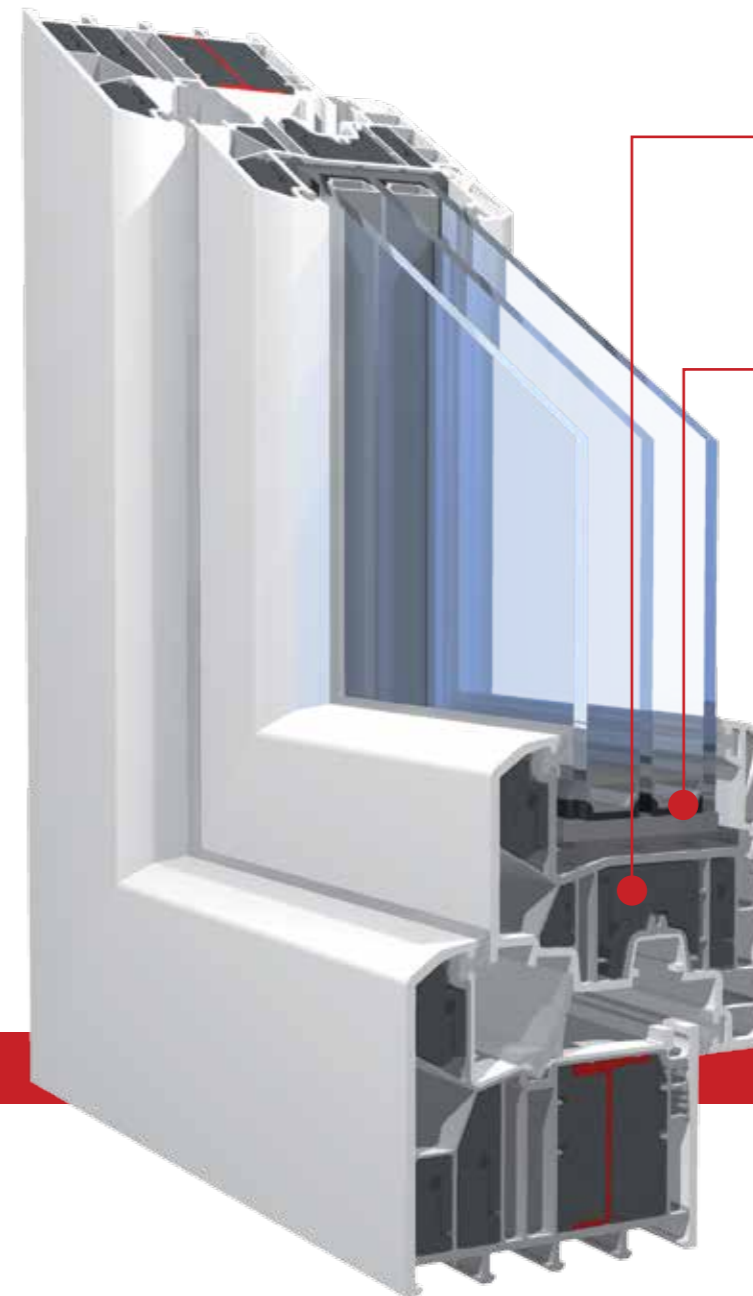


The attached aluminium covers for the new KBE System\_88mm ALUSTAR are clipped on the PVC-U profiles for a robust and permanent connection.



## *Intrinsic values as an advantage*

Windows must fulfil unusually demanding specifications, especially in new building concepts focusing particularly on energy saving, e.g. for passive houses. The KBE System\_88mm provides a range of expansion variants for obtaining the max thermal insulation for every situation. The various combinations of thermal insulation cores and thermo steels, bonding technology, and an optional double or centre seal system can be utilised to realise window solutions for individual requirements. This intelligent insulation technology lets you manufacture windows meeting precisely your needs and helps you to reduce your energy consumption even further.



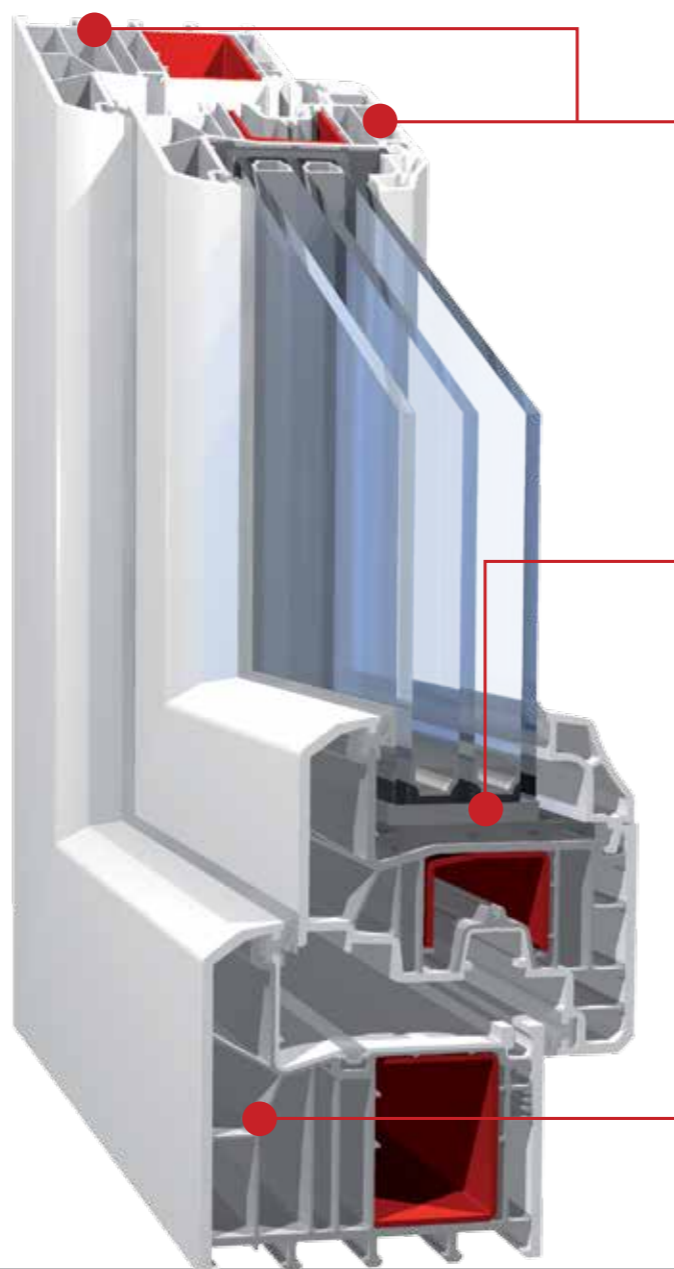
The Neopor thermal insulation cores are inserted into the KBE System\_88mm profiles for an additional boost to the window profile's thermal insulation values.

Structural advantages like e.g. the deep glazing offset provide for top values in thermal insulation.

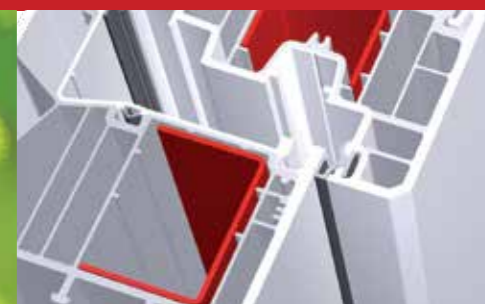
- » Thermal insulation cores or prefoamed profiles for maximised thermal insulation values
- » The flexible combinations of insulation cores and thermo steels, bonding technology, and the optional centre seal always provide the perfect solution
- » The materials of the profile and insulation core are physically separated for full recyclability
- » Passive house compatible

# Environmental protection as an *investment*

Environmental conservation, sustainability, and the minimised draw on the resources of our Earth are obligations for each and every one of us who is aware of their responsibility to the up and coming generations. From the very start of production this is our central motivation behind our KBE System\_88mm PVC-U profiles. For instance, lead is no longer used to stabilise virgin material, but eco friendly calcium and zinc. Also KBE applies the maximum possible proportion of recycled material in its production processes for the smallest possible draw on resources. The result – Eco friendly PVC-U windows whose superior insulation values help to save heating costs and reduce CO2 emissions.



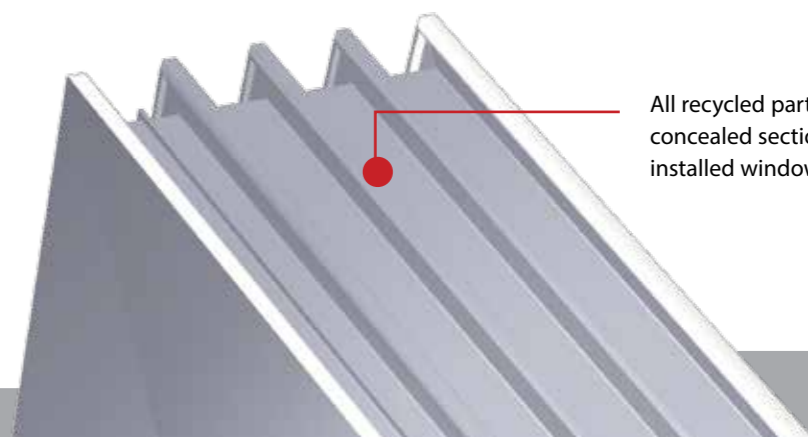
- » The superior six chamber technology of the PVC-U profiles achieves the optimal thermal insulation.
- » The PVC-U profiles of the KBE System\_88mm range are stabilised with eco friendly calcium and zinc instead of lead.
- » The production of PVC-U profiles for our KBE System\_88mm utilises recycled material for a particularly low draw on resources.
- » As a founding member of the window recycling initiative REWINDO, KBE ensures that discarded PVC windows are recycled in a closed material cycle.



The interior of PVC-U profiles from our KBE System\_88mm range consists of recycled materials – for the love of our environment.



For its greenline range, KBE has replaced lead as a stabiliser with eco friendly calcium and zinc – and that for years.



All recycled parts are in the concealed sections of the installed window.



## Optimal economy as a top value

Following the inexorable rise in energy costs over recent years, today's demand is for maximum economy. An investment in window profiles with a high thermal insulation value is therefore an investment that pays off. Thanks to their consistent six chamber technology and receivers for a wide range of panes up to special functional glazing, the windows in the KBE System\_88mm achieve top values that can afford a crucial contribution to energy cost savings.

### Considerably improved thermal insulation with optimised thermal properties

- » **Consistent six chamber technology** in the PVC-U profiles. An additional seventh chamber features an innovative steel reinforcement for superior thermal insulation properties.
- » **Low glazing offset** for improved inner surface temperatures in the critical areas.

- » **Optional centre seal** for an additional increase to thermal insulation and improved tightness against wind and driving rain

### Efficient production for optimal economy.

- » **Optimal economy** - the same glazing bead can be used in the outer frame, sash, and mullion.
- » **Compatibility with the hardware parts** from the 70 mm systems
- » **Minimal use of tools** (fewer sawing allowances and millers).

### More room and stability for sound insulation and security

- » For receiving **functional glazing**
- » **Improving sound insulation**
- » **Wide range of glazing**

### Reliable robustness and enormous structural loadability

- » Additional **reinforcement of the main loading zones** for deflecting the pane weights and securing the hardware components

