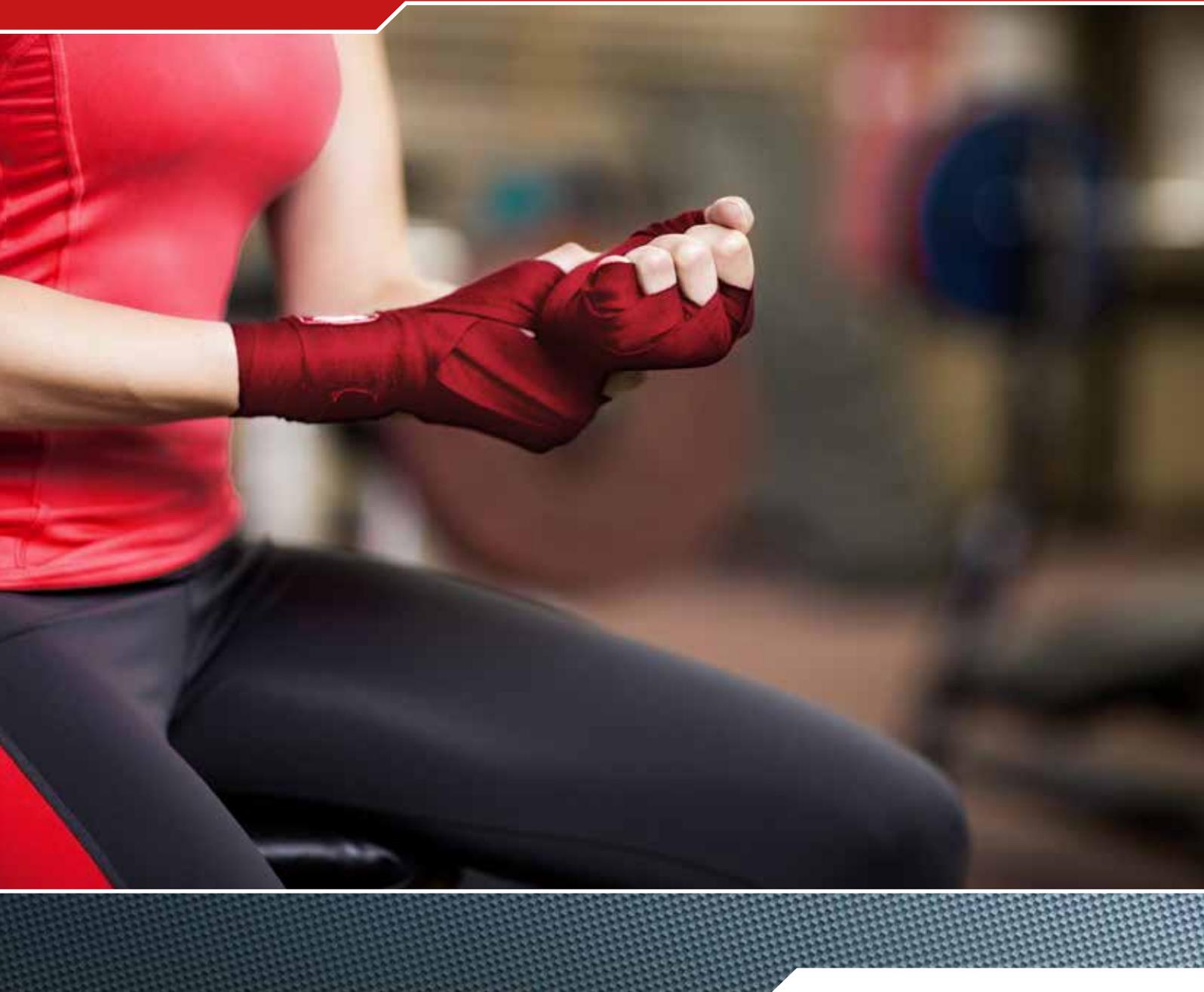


*Discover*  
***new potential***



***KBE 76*** Double seal system





# ***KBE is high performance***

At KBE, high performance means individual solutions, a fast delivery service and technical innovations. Within the space of just a few years, the company has advanced to become a world leading provider of plastic windows.

To consolidate and develop this leading position, KBE regularly invests in modern production facilities, research and development and intelligent logistics.

The dynamism of this special company is evident in the latest generation of KBE profiles: KBE 76. The new system unites all the features that discerning building owners, architects and planners want today: optimised insulation, space for large window areas, plus elegant and forward looking design.

**KBE 76 delivers optimum performance.**



## ***Achieving energy objectives: KBE 76***



KBE 76 makes it easier and more convenient than ever before to achieve energy and heating cost savings. The new generation of windows can incorporate triple glazing and functional glazing up to a thickness of 48 mm. In other words: hardly any heating energy is lost through the glass. Yet the expansive glass surfaces allow valuable sunlight warmth to enter.



- » Vast range of options for triple glazing and functional glazing up to 48 mm
- » High heat insulating double seal system with a 76 mm construction depth
- » Use of solar energy gains
- » State-of-the-art adhesive technology



# *Optimum*

## *quality of life: KBE 76*

KBE 76's large glass areas with modern glazing allow consumers to realise their dreams of light-flooded rooms. The new, narrow profiles deliver high static stability, resulting in a light yet energy efficient living environment. The large window areas make optimum use of sunlight and save heating costs, even when the outside temperature is cold.

Design a more beautiful, inviting and sunnier home. Or renovate your existing home with KBE 76.

- » Narrow profiles for maximum sunlight incidence
- » Solar energy gains reduce heating costs
- » Intelligent design for improved window stability

# Effective protection: KBE



## Fantastic sound insulation

The volume of traffic is growing, we have more industrial estates and our environment is getting increasingly loud. With KBE 76, you can simply shut out loud noise, which can have a negative effect on health.

Innovative seal technology and sound insulating glazing are the solution.

Your home is quieter and more relaxed. Enjoy a sense of well-being in your home with KBE 76.

» Innovative seals for optimised sound insulation

» Optional integration of sound-proof glazing



# E 76



## *Effective intruder protection*

It is a proven fact that anti-burglary features in windows and doors deter intruders because they see them and realise that it will take them too long to break into the building.

That's why KBE 76 offers numerous anti-burglary features to enhance the security of your window, balcony and patio doors. This innovative system is ideal for the integration of anti-burglary fittings and safety glazing.

» **Integration of safety glazing up to resistance class RC 2 (WK 2)**

» **Use of anti-burglary fittings is possible**

# ***Fresh air supply system: REGEL-air® 76***

Correct, regular airing is becoming more important than ever, especially in face of the growing effectiveness provided by insulation in living space. When there is too little ventilation the relative air humidity rises constantly, quickly giving rise to a damp indoor climate that promotes the growth of mould.

For this reason it is important that a healthy balance is reached between a sensible ventilation behaviour and the minimum heat loss. This safeguards on the one hand sustainable energy consumption, on the other the integrity of the building fabric that would otherwise suffer from the effects of moisture. REGEL-air® 76 from KBE is your ventilation solution for a regulated supply of fresh air – and that fully automated, even without active ventilation.



- » Constant, uniform supply of fresh air
- » Minimises high air humidity and the risk of mould
- » Simple retrofit
- » Concealed in the outer frame rebate, so not visible from the inside and outside when the window is closed
- » Easy to clean
- » Tested sound insulation up to 43 dB (STC 4)
- » Protection against driving rain and passage of air tested in accordance with DIN and EU standards
- » Ventilation in accordance with DIN 1946-6

## Flexible installation options

Fitted with a double-stage wind pressure regulator, REGEL-air® 76 contributes to a healthy living climate inside closed windows and is easy to clean.

The new REGEL-air® 76 fan features an innovative return spring and does not need a power supply. It can be installed either horizontally over the window or vertically next to it. In addition, it is also ideal for retrofitting on existing windows.

Fan Installation	Test values in dB*			Air flow rate in m³/h				
	A	B	C	2 Pa	4 Pa	5 Pa	7 Pa	8 Pa
1 along the horizontal top, 1 along the vertical side	39	43	43	3	4	5	5	6
2 along the horizontal top, 1 along the vertical side	38	42	43	3	4	5	6	7
2 along the horizontal top, 2 along the vertical side	38	42	42	4	5	6	7	8

\*Pane structure: A) 6/16/4/14/4 (36–37 dB), B) 8 CSG SI/12/6/12/8 CSG SI (45 dB), C) 12 CSG SI/20/8/20 CSG SI (48 dB)

# Ventilation

## according to standards – ClimaTec Plus

ClimaTec Plus is the new generation of self-regulating window rebate ventilators. The installation takes place in the upper area of the window sash instead of the sash upstand seal - matching the colour of the window seals in colours light grey or black. As a result, it remains almost invisible even when the window is open.

It ensures a controlled air exchange, without manual ventilation, with the window closed. The number of fans (up to 3 units) depends primarily on the needed air volume and the required sound insulation.

The air is routed through the window rebate, the space between the sash and the frame. For this purpose, the outer frame gasket is replaced at certain points by replacement seals, so that due to pressure differences, the air in the window rebate and via ClimaTec Plus can continue to flow into the room interior. Thanks to the innovative flow control technology of the control dampers, a sensitive air flow regulation takes place, which limits the air flow at high wind loads and thus avoids drafts.

ClimaTec Plus 76 AD		Variant 1 single	Variant 2 double	Variant 3 triple	Variant 4 single acoustic	Variant 5 double acoustic	Variant 6 triple acoustic
Test report no.	18-001463_PR13 (see GAS: 18-001463-PR14)						
	(Pa)	Air m <sup>3</sup> /h					
Air volume flows	2	2,4	4,5	5,8	2,2	3,6	4,2
	3	3	5,5	7,2	2,8	4,4	5,2
	4	3,5	6,3	8,3	3,3	5,2	6,2
	5	4	7,1	9,3	3,7	5,9	7
	6	4,4	7,8	10,3	4,1	6,5	7,8
	7	4,7	8,4	11,1	4,5	7,1	8,5
	8	5,1	9	11,9	4,8	7,6	9,2
	10	5,7	10,1	13,4	5,4	8,6	10,4
Water tightness		Class					
(A)		9A	8A	5A	6A	7A	4A
Window structure (Window value without ventilator in dB)		Luftschalldämmung / Prüfwert in dB					
4-46-4 (24 mm / 34 dB)		33	30	30	34	34	32
8-16-4 (28 mm / 39 dB)		38	33	32	38	38	36
12 SI-20-8-SI (40 mm / 47 dB)		44	34	33	46	44	39
8-12-4-12-4 (40 mm / 40 dB)		44	34	33	46	44	39
10-14-4-14-6 (48 mm / 42 dB)		40	34	33	41	40	37



- » Automatically controlled window rebate ventilator
- » When the window is closed, the ventilator is not visible
- » For new windows or for retrofitting in the existing window
- » Precise airflow regulation to prevent drafts  
Installation always at an optimal place – at top across – as independent of hardware
- » Minimises high air humidity and the risk of mould
- » Tested sound insulation up to 44 dB
- » Compact thanks to precise flow control technology in the smallest possible space
- » Fully tested by ift Rosenheim – the Institute of Window Technology
- » Ventilation according to DIN 1946-6 and DIN 18017-3

# *Anything but superficial*

## *Great creative freedom*

Building owners, architects and planners will be thrilled by the colour possibilities with KBE 76.

Whether new buildings or renovations - KBE 76 gives architecture a unique character with its numerous colours and surface structures. The surface technology proCoverTec represents a special innovation. This new and unique coating combines functionality with durability and aesthetics.



### ***Classical white***

Timeless white of enduring beauty because the quality PVC-U of KBE 76 is extremely weather resistant, retaining its smooth, glossy surface. It is also easy to clean.



### ***Plain colours for laminations***

This lamination brings colour into play. The surface is extremely weather resistant and easy to clean.



### ***Woodgrains for laminations***

The woodgrain lamination unites the natural look with the advantages of robust PVC-U. The regular paintwork usual for wooden profiles is no longer necessary, and your house receives an accentuated farmhouse style.



pro **Cover** Tec  
protected *by colour*

## **proCoverTec**

The unique surface technology that combines functionality with durability and aesthetics. The proCoverTec surface is extremely dense and homogeneous, the silky matt appearance gives your window profiles a noble appearance and a slightly structured, pleasant feel. It provides optimum protection for your window profiles and minimises the adhesion of dirt particles. Choose from our unmistakable, timeless colour range with 26 colours – including four with metallic shimmering effects. The coating can be applied both outside and inside in neutral white or in full cover, colour all around.



-  COLOUR
-  PROTECTION
-  USER FRIENDLY



## ***Powerful combination: KBE 76***

Plastic and aluminium – KBE 76 unites the advantages of both materials in an innovative window system. The aluminium shell delivers weather resistance and a comprehensive range of colour options. The plastic profile on the finished window delivers optimum heat and sound insulation.





### ***AluClip***

The aluminium facing shell for KBE 76 gives you the best of both worlds: elegant aluminium design in a practically unlimited range of colours, plus the optimum insulation values of a modern plastic profile system.

### ***AluClip Pro***

The AluClip Pro has an aluminium profile connected to a plastic profile. The aluminium performs the static function so no steel reinforcement is necessary inside the window casement.

### ***AddOn***

The aluminium interconnecting frame not only boasts modern design, it also has an optional integrated privacy and sun protection elements. The additional glass pane also improves its heat and noise insulation properties.



# ***Robust doors:***

## ***KBE 76***

Welcome! Your guests will be impressed by your new KBE 76 door. It also perfectly blends in with your home's overall appearance because you can use the same system for your front door, balcony door, patio door and parallel slide-tilt doors.

KBE 76 is distinguished by its excellent heat and sound insulation values, plus effective protection against the elements and impact rain.

- » Front doors, balcony and patio doors, parallel slide-and-tilt doors
- » Perfect rain and wind protection
- » High heat insulation as a result of the thermally separated threshold
- » Maximum sash sizes:  
single sash door 1200 x 2400 mm  
secondary sash door 1000 x 2400 mm
- » Excellent intrusion protection – up to resistance class RC 2 (WK 2)
- » Excellent tightness as a result of the double threshold seal
- » Use of special functional glazing or conventional panels







# ***Sustainability***

***as an incentive: KBE 76***



KBE 76 conserves valuable resources because this new generation of windows achieve an optimum balance of material usage and functionality. That means maximum insulation values with the most sparing use of plastics.

It is also designed in accordance with greenline principles. No lead is used in the plastics as a stabiliser. Instead, an eco-friendly calcium-zinc based stabiliser is used.

And what happens at the end of its life cycle? Then the old window components are used to make new ones. Our recycling initiative facilitates a sustainable materials cycle.

- » **Optimised material usage**
- » **Lead-free, eco-friendly stabilisers**
- » **Professional recycling**
- » **Lasting contribution to CO<sub>2</sub> reduction because you use less energy as a result of high heat insulation**

# Best performance: K



## Top heat insulation

The insulating chambers guarantee a very high thermal insulation.



## Top sound insulation

In combination with high quality functional glazing, the KBE 76 system delivers optimum noise protection.



## Top design

Narrow profiles allow for expansive transparent glass surfaces. There is also a comprehensive selection of foils and combinations of coated aluminium for individual design.



## Top intruder protection

The window profiles are designed for use of special safety fittings and additional burglary-protection measures.



## Top ventilation

The use of optionally integrated ventilation systems ensures an optimum indoor climate and prevents mould from forming.



## Top tightness

The innovative seal levels keep out draughts, dust and rain, and ensure a pleasant indoor climate.

# KBE 76



KBE 76's biggest strength is the sum of its advantages. This modern plastic window system meets all present and future requirements.



## Top convenience in operation

Optimised for modern fittings, all opening types are possible for simple everyday opening and closing.



## Top on care

The high quality surfaces are weather resistant and easy to clean.



## Top value for money

High quality, first-rate eco-friendly plastics and lasting convenience of operation permanently add to the value of your property.



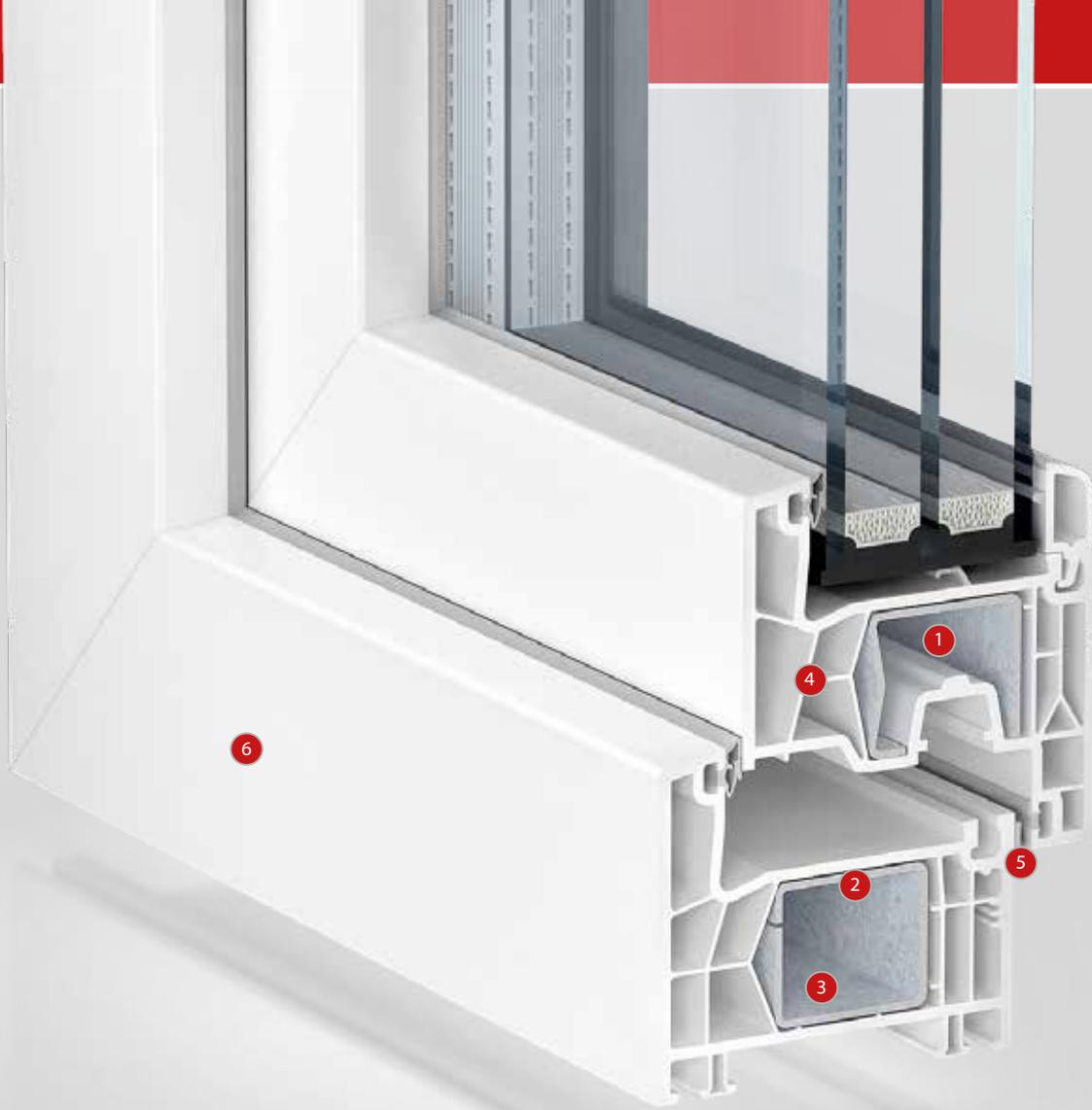
## Top stability

Perfect steel reinforcement positioning and steel supports ensure perfect window statics. Adhesive-fitted glazing includes the three components of »sash - adhesive - glass« in a composite structure. With AluClip Pro, the aluminium facing shell assumes the static function.



## Top depth: 76 mm

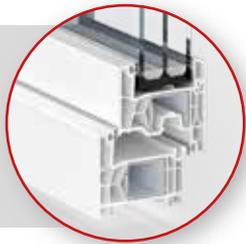
The window profile's low construction depth doesn't just enhance the appearance of a new building, it is also perfect for renovation projects with complex architectural and energy-related requirements.



1

» **Perfect heat insulation**

With a standard window, KBE 76 already achieves a heat insulation value of  $U_f = 1.1 \text{ W/(m}^2\text{K)}$ .



3

» **High dimensional stability**

The centrally arranged steel reinforcement ensures maximum dimensional stability. Special supports hold the steel reinforcement in the right position.



2

» **Versatile and clean installation**

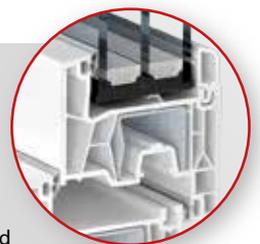
KBE 76 windows are suitable for all current installation situations. Screws can be inserted through the steel, through a dowel chamber adapter or with the help of an anchor for variable, fast and clean installation.



4

» **State-of-the-art chamber design**

The chambers are designed on the basis of the most modern calculation methods to ensure high heat and sound insulating properties, plus optimum profile stability and the strength to hold heavy glazing.



# High-tech system: KBE 76

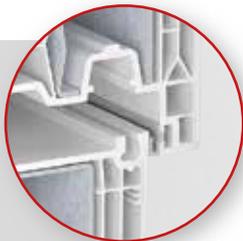
KBE 76 is a universal window system that flexibly adapts to individual requirements and budgets. However, it isn't just the comprehensive range of options that make KBE 76 so attractive, but also its state-of-the-art technology.

The innovative design permits the installation of triple glazing with modern insulation glass, despite the profile being relatively narrow. And intelligent mounting techniques ensure that the replacement of an old window with a new modern KBE 76 window is a clean and quick process.

5

## » Reliable function

The load bearing fittings are screwed together via several cross profiles, special lugs and the steel reinforcement.

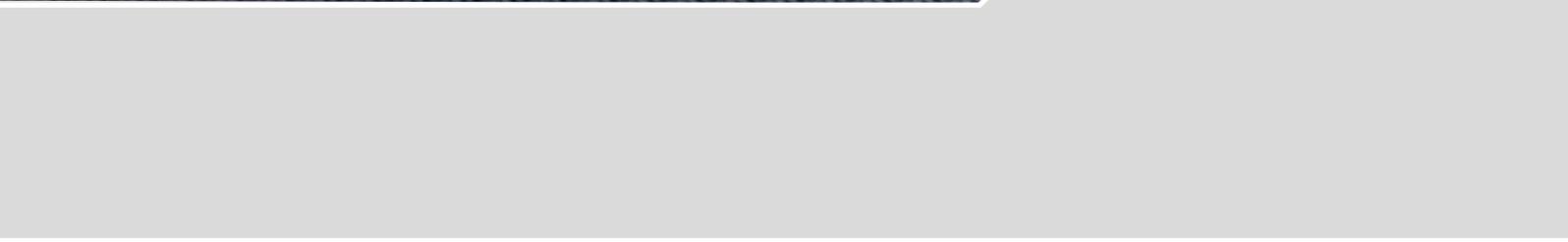


6

## » Versatile design

The KBE 76 system offers numerous customisation options, such as a range of foil colours or modern aluminium facing shells which can be coated in all RAL colours or with special effect coatings.





# ***Endurance***

## ***redefined: KBE 76***

KBE 76 is durable. As a result, buying new windows and doors isn't just a good investment, you also get to enjoy their optimum function and perfect design for many years to come. The high quality of KBE 76 makes it excellent value for your money.

You also generate lasting value with KBE 76. Its timeless elegance and sustainable design reflects your acceptance of responsibility for future generations.

- » Impressive cost and energy savings as a result of optimised heat insulation
- » Enhanced quality of life through perfect sound insulation
- » More security through integratable intruder protection features
- » Easy-care, robust and weatherproof surfaces
- » Retains value due to durability and excellent quality
- » State-of-the-art technology for excellent ease of operation and reliable function



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