



THE POSSIBILITIES ARE ENDLESS

Windows redefined – with RAU-FIPRO X

WINDOWS. REINVENTED FOR MODERN LIFE.



DEVELOPED FOR AEROPLANES

Perfect for your windows

In 2008, RAU-FIPRO from REHAU revolutionised the window market. It was then that the principles of fibre-reinforced composite materials, previously used primarily in motorsport or aviation, were first applied to windows, combining the best features of plastic and glass fibre to create a completely new material.

There were 3 secrets to its success:

- It was twice as stable as all-PVC windows, meaning windows could be far bigger.
- It had significantly fewer thermal bridges, ensuring maximum energy efficiency.
- For the first time, individual panes could be fully reinforced right into the corners – with no need for steel.

A lot has changed since then, including fashions in architecture, customers' expectations of how windows should look and perform, and increased demand for environmental sustainability.

At REHAU, we never stop working to create windows that combine your demands with the latest lifestyle and architectural trends.

Our slogan sums it up perfectly:

 **REHAU**
WINDOWS.REINVENTED FOR MODERN LIFE.





IT'S TIME
TO WRITE THE NEXT CHAPTER
IN RAU-FIPRO'S SUCCESS STORY...

RAU-FI

FULLY REINFORCED WITH GLASS FIBRE.

With 50% more glass fibre in its sash profile, RAU-FIPRO X is the premium material for a wide range of applications. It takes all the benefits of RAU-FIPRO and adds the X-factor:

X -TRA LARGE
ELEMENTS

More light, more design freedom, more comfort

IPRO X

FOR WINDOWS WITH THE X-FACTOR.

X -TRA HIGH ENERGY-
EFFICIENCY

Outstanding thermal insulation and energy-saving

X -TRA
POSSIBILITIES

Maximum design freedom and security with the highest levels of comfort

THINK IN NEW DIMENSIONS

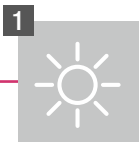
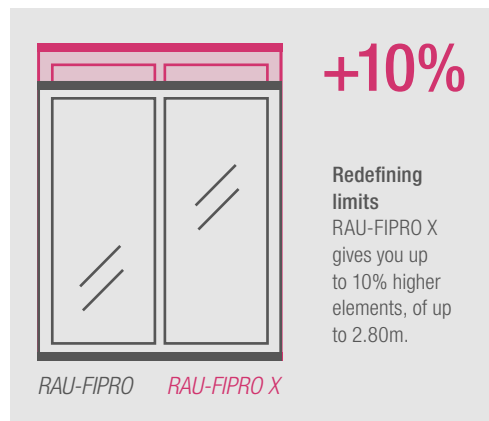
X-tra large window elements with RAU-FIPRO X

Demand for light-filled, open-plan architecture has never been so high. And generously-sized windows play a crucial role. When it comes to size, RAU-FIPRO X has once more redefined the art of the possible, allowing you to create a completely new atmosphere in your home.

1 Exceptional light and visibility

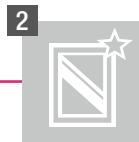
With over 50% more glass fibre incorporated into the sash, RAU-FIPRO X creates the conditions for previously unimaginable window sizes.

Even fully-functional floor-to-ceiling window elements up to 2.80m (9.2ft) are now possible – with no need for any extra toplights. The result? Even more natural light and design freedom, so you can create your own unique atmosphere. Extra-slim profiles extend the window panes even further.



X-tra light

thanks to bigger window elements



X-tra design

Modern aluminium appearance



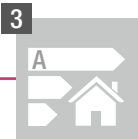
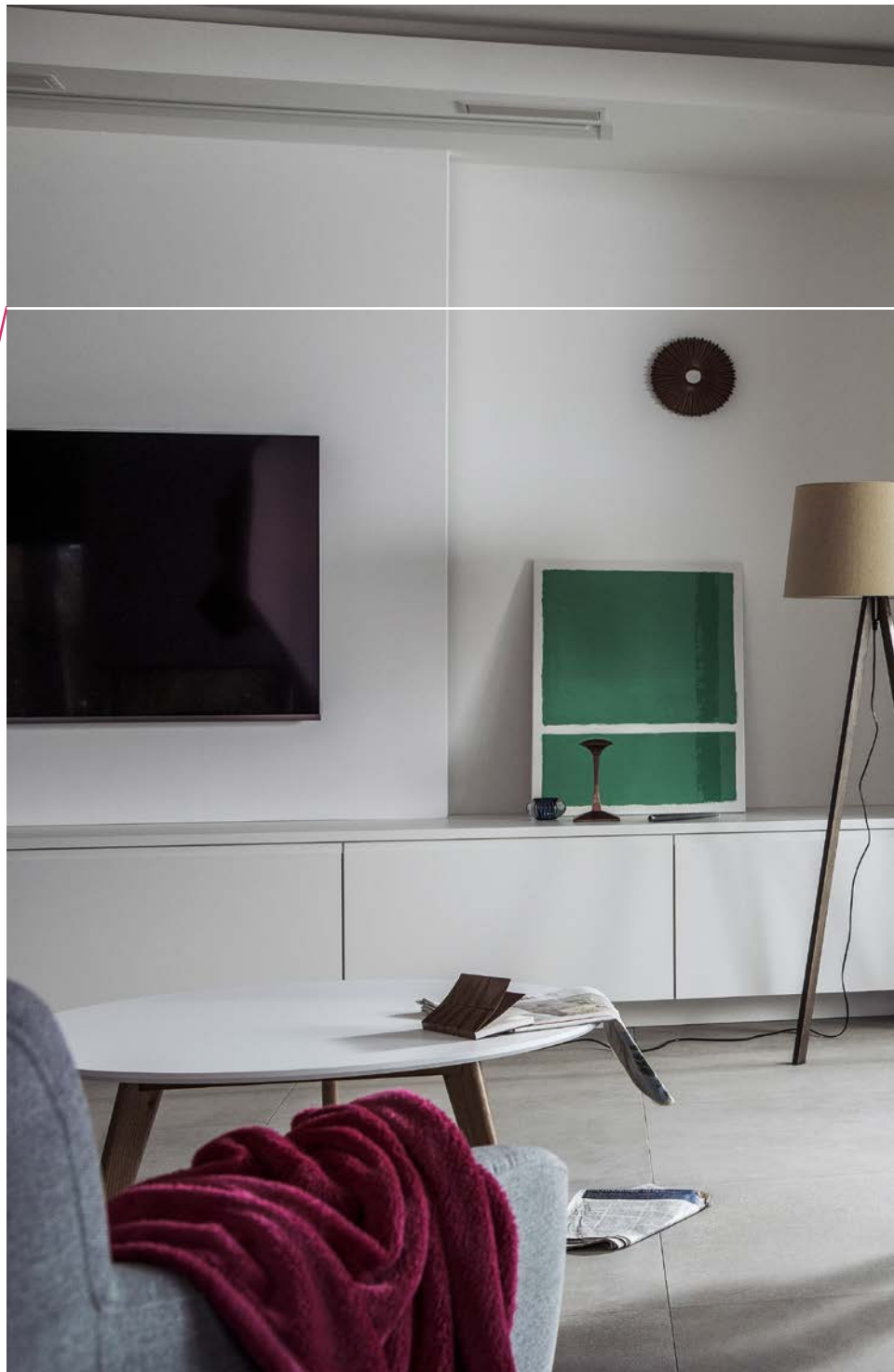
2 The most cost-effective design solution

With RAU-FIPRO X, you can build windows in sizes previously only available in aluminium. But that's not all. Thanks to their aluminium casing, the windows have a high-quality aluminium look that's bound to impress. And their uniform anthracite profile completes a sleek seamless finish even when they are open.

Alongside the casing, polished metal laminations and lacquers are also available to help you create well-structured, sparkling surfaces.



↑ **10%** BIGGER
ELEMENTS



X-tra energy efficient
with no thermal bridges

SAVE ENERGY AND PROTECT THE ENVIRONMENT

X-tra high energy efficiency with RAU-FIPRO X

Sustainability and saving energy are among the biggest issues of our times. Climate change and government legislation will ensure they stay in the spotlight for years to come. So it's a good job you can already look confidently into the future thanks to RAU-FIPRO X window profiles. They can reduce energy consumption by up to 76%. Large glass surfaces are also suitable for generating solar energy.



76% ENERGY SAVING*



3 Outstanding thermal insulation

90% of all RAU-FIPRO X frames don't need any metal reinforcements, meaning no wasteful thermal bridges. Combined with insulating triple glazing, they achieve exemplary thermal transmittance figures of up to $0.60 \text{ W/m}^2\text{K}$, leading to an energy saving of up to **76%***.



Claim your subsidy now! RAU-FIPRO X window profiles are **certified by the Passive House Institute in Darmstadt**. Building materials approved by Passive House are generally between two and four times more efficient than standard products. So getting your KfW subsidy should be little more than a formality.

**Reduction in energy loss associated with replacing old wooden/plastic windows built in the 1980s ($U_f = 1.9$; $U_g = 3.0$) with windows with GENE0 profiles ($U_f = 0.86$; $U_g = 0.5$), window size 123 x 148 cm*

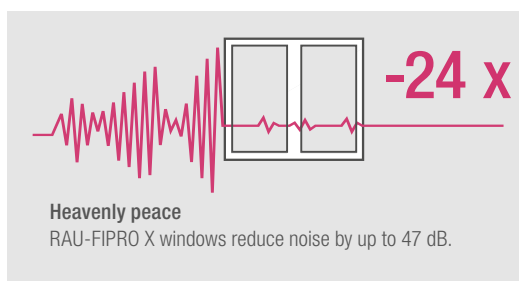
COMFORTABLY ON THE SAFE SIDE

X-tra possibilities with RAU-FIPRO X

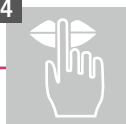
Relaxing in your own home – thanks to RAU-FIPRO X, there's a light-touch way to quiet and peace of mind. The glass fibre used in the profiles provides extra stability, allowing them to support sash weights of up to 150 kg, and giving you room to install heavy-duty soundproof and security glass.

4 An end to noise and stress

Noise creates stress – and nobody wants that between their four walls. Using RAU-FIPRO X can reduce noise by a factor of 24, turning your home into an oasis of peace and quiet.



4



X-tra quiet

for more relaxation

5



X-tra light

and easy to handle

5 Lightweight design

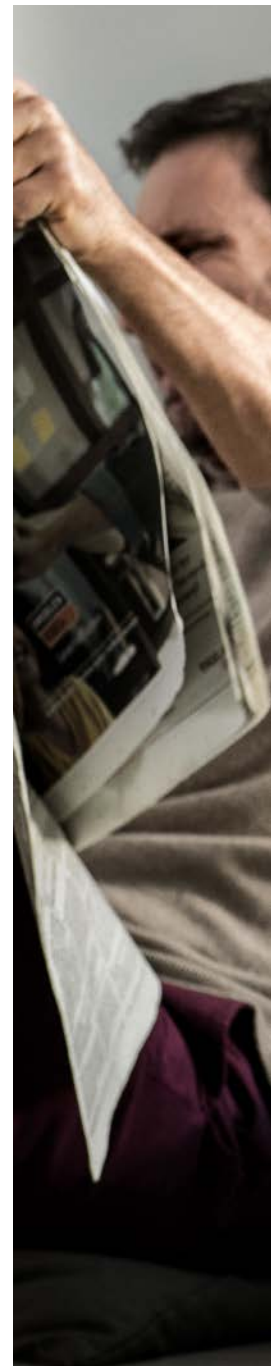
Lightweight RAU-FIPRO X profiles make even windows with heavy sashes easy to handle. All-new seal geometry also reduces closing pressure, making for feather-light opening and closing.

6



X-tra security

up to resistance class RC 3

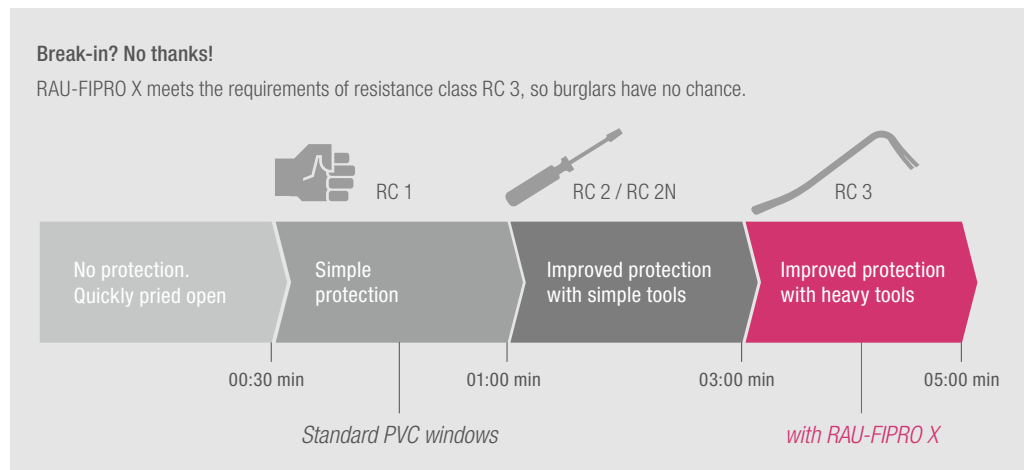




 **24** TIMES LESS NOISE

6 Playing safe

RAU-FIPRO X windows easily meet resistance class RC 2 standards. And a few simple modifications will bring even **RC 3 standards** within easy reach.





MAXIMUM CREATIVE FREEDOM – WHATEVER YOUR STYLE

X-tra variation with RAU-FIPRO X and KALEIDO COLOR

Few aspects of your home influence its design more than its windows. Give your building the unique touch it deserves, and put your own stamp on it with our KALEIDO COLOR colour range and unique window shapes.



Round or square, with or without glazing bars

With RAU-FIPRO X, even the most demanding window designs can be built with ease.

7 Your home, your shape

Modern architecture is all about clear shapes and lines. Highly-specialised layouts often require special windows to match. So it's a good thing that, thanks to the stability of RAU-FIPRO X, you can design windows with unconventional shapes to suit your needs. There's no need to restrict yourself – so unleash your creativity!



8 Endless possibilities with KALEIDO COLOR

The KALEIDO COLOR range offers a huge choice of unique colours and designs. We use a range of techniques to make sure you get exactly the look and surface structure you want, from lacquer (KALEIDO PAINT) to lamination (KALEIDO FOIL). It all adds up to **over 400 unique designs**. And, of course, you can also combine different looks – both inside and out.

A natural look and feel with KALEIDO WOODEC

REHAU has taken the real wood look and feel to the next level. The matt surfaces of KALEIDO WOODEC don't just look great – they feel exactly like the real thing, too.



7

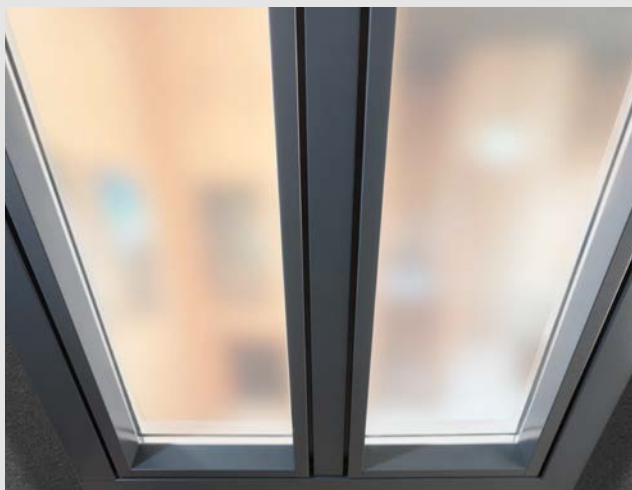


X-tra architecture
shaped around you

8



X-tra looks
with KALEIDO COLOR



The perfect aluminium look with KALEIDO COVER

Aluminium casings allow you to combine the look of aluminium windows with all the benefits of RAU-FIPRO. The surface can be lacquered, powder coated or anodised in over 170 RAL colours; dark greys and metallic looks are right on trend. The combination with the windows' anthracite-coloured main bodies creates the perfect finish.

LIVING SUSTAINABILITY

Energy efficiency and low environmental impact included

The concept of sustainability is now an established feature of our society – and it's changing architecture and construction. As a global manufacturing company, REHAU bears a special responsibility to look after people and the environment alike. So it stands to reason that we are constantly working to increase energy efficiency and save resources in all our products and facilities. REHAU window profiles carrying the ECO PULS label set the standard for environmentally-friendly materials.



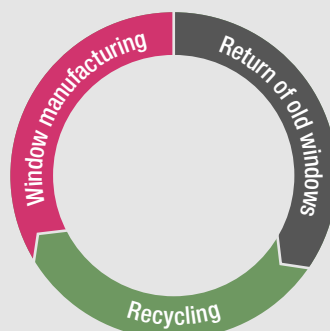
SAVE
UP TO



97,000 TONNES
OF CO₂ EMISSIONS

9 A closed materials life cycle to save resources

Old windows are turned into new, innovative and sustainable window systems – while meeting exactly the same quality standards as REHAU windows made from new materials. The material is cleaned, shredded, sorted, purified, and finally re-used in the inner cores of new window profiles. As a result, we already achieve CO₂ savings of up to 97,000 tons per year.



Sustainable investments

By 2020, REHAU will invest over EUR 65 million in both internal and external recycling facilities, conserving resources for the long term.



9



X-tra recycling
same high quality

10



X-tra certified production
independently checked and approved

10 Excellence in sustainability

All REHAU's European window manufacturing plants have been awarded **VinylPlus independent certification for sustainable window** production. From sourcing raw materials to fabrication and recycling, we meet strict criteria at every stage of the production process. It all serves to underline our commitment to sustainability – a commitment that's automatically reflected in every REHAU window system.



Certified sustainability
Official, independent proof of sustainability.

A STRONG TEAM

GENEO window systems and RAU-FIPRO X

The success of RAU-FIPRO is closely connected to our GENEO window system. So it's only logical that GENEO should be the first REHAU system made from RAU-FIPRO X. Discover **GENEO RAU-FIPRO X** for yourself!

86 mm

GENEO
in numbers

**INSTALLATION
DEPTH**

over

400

DESIGNS

0

**CLASS-
TRANSM**

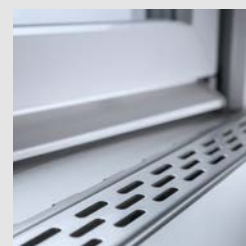
Easy to maintain

On top of the glass fibre-reinforced RAU-FIPRO X structure sits the high-quality HDF (High Definition Finishing) surface. It is extremely smooth, dirt resistant and easy to clean, as well as being highly resistant to weathering.



Step-free access

The RAUCERO 0 mm threshold makes doorways completely level and step-free. Integrated drainage and super-easy cleaning are guaranteed to impress, as is its attractive, discreet look.





60 $\text{W/m}^2\text{K}$
**LEADING THERMAL
MITTANCE FIGURES**

Up to
RC 3
SAFETY

Up to **47** dB
NOISE INSULATION

Preventative protection against break-ins


The REHAU Smart Guard alarm module can be built into the frame to detect burglars and scare them off before they can do damage. If things get really serious, the main alarm is activated using a radio signal. Available with optional Smart Home connection for programmable custom alarms.



Smart ventilation

GENEO INOVENT: Windows that let in air, even when they're closed. The fully-integrated system provides increased comfort, better air quality, less noise and more security. When connected to your smart home console and the appropriate sensors, GENEO INOVENT will ventilate your home automatically, 24 hours a day.





**BROADEN
YOUR HORIZONS.
WINDOWS FOR
MODERN LIFE.**

 **REHAU®**

WINDOWS. REINVENTED FOR MODERN LIFE.



For more information, visit www.rehau.com/new-dimensions

You can get RAU-FIPRO X here:



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WINDOWS SOLUTIONS Inc.

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Subject to technical changes

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