

**Engineering progress
Enhancing lives**

Think in new dimensions

RAU-FIPRO X: the high-tech material
that boosts size, safety and comfort.
Exclusively for the GENEIO window system.

Windows. Reinvented for modern life.



Designed for aircraft, perfect for your windows

In 2008, RAU-FIPRO revolutionised the window market. Back then, fibre-reinforced composite materials were primarily found in motor racing or aircraft construction, but this development saw it used in the window industry for the first time. RAU-FIPRO combines the best properties of polymer and glass fibres to create an innovative material.



The secret to its success

Larger window sizes

50% greater stability when compared to windows made from pure PVC.

Optimum energy efficiency

As a result of far fewer thermal bridges.

Individual panes

Fully reinforced right into the corners for the first time – with no need for steel.

A lot has changed since 2008, including new trends in architecture, customers' expectations of how windows should look and perform, and an increased demand for sustainability.

But REHAU wouldn't be REHAU if we didn't keep working on making windows that are as modern as your life is.

We've increased the amount of glass fibres in our new high-performance RAU-FIPRO X material by more than 50%.

The new generation of fully reinforced sash profiles, strengthened with fibres, adds a new element to RAU-FIPRO's well-known benefits.

**RAU-
FIPRO X**

High-Tech
Material

Windows. Reinvented for modern life.

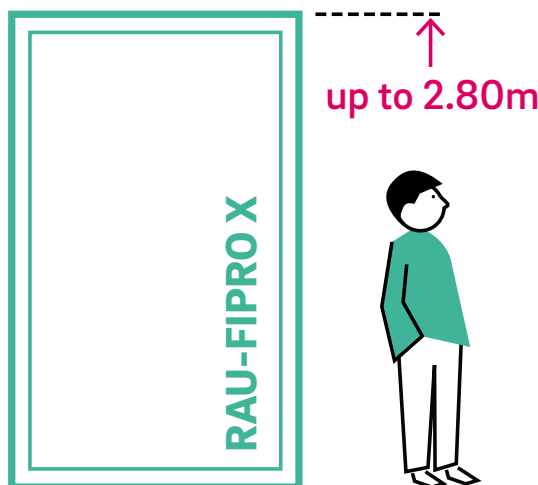
X-tra large and flooded with light

Demand for larger windows has never been so high. When it comes to size, RAU-FIPRO X has once more redefined what's possible, allowing you to create a completely new atmosphere in your home.

The large amount of glass fibres in the sash makes it possible to create fully functional floor-to-ceiling windows of up to 2.80m in height. Extra slim profiles extend the window panes further. Tap into new architectural possibilities and enjoy maximum natural light.



**Windows
up to
2.80m**





High quality finish

The aluminium cladding means that RAU-FIPRO X windows are a serious alternative to aluminium windows.



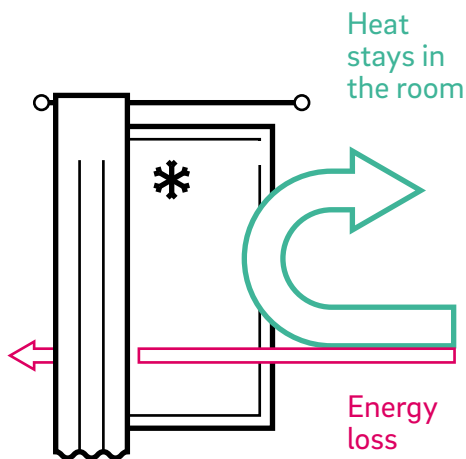
Great design, unbeatable value

RAU-FIPRO X allows you to build windows in sizes that were previously only available with aluminium. The cladding gives the windows an aluminium look you'll fall in love with. Alongside the cladding, polished metal laminations and high-tech paint coatings are also available to help you create well-structured, sparkling surfaces.



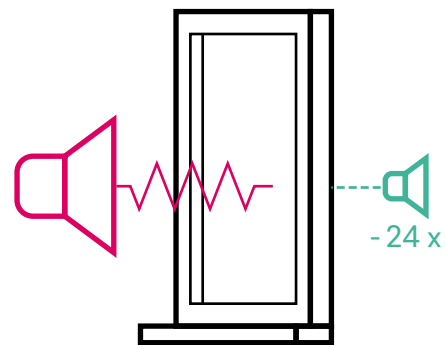
X-tra comfortable and safe

The glass fibre in the sash profiles reduces noise and withstands heavy safety glass, whilst improving energy efficiency.



Outstanding thermal insulation

90% of all RAU-FIPRO X frames don't need steel 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%*. Large glass surfaces are also suitable for generating solar energy.



Premium soundproofing

Environmental noise can be linked to mitigating the effects of illness. RAU-FIPRO X windows can help improve your quality of life. Why? Because they reduce noise by up to 47 decibels. This corresponds to a 24-fold reduction in noise levels.

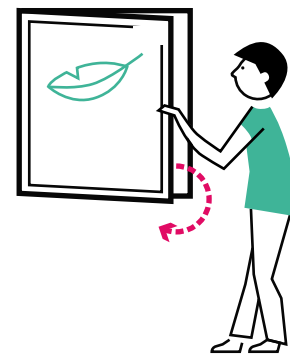
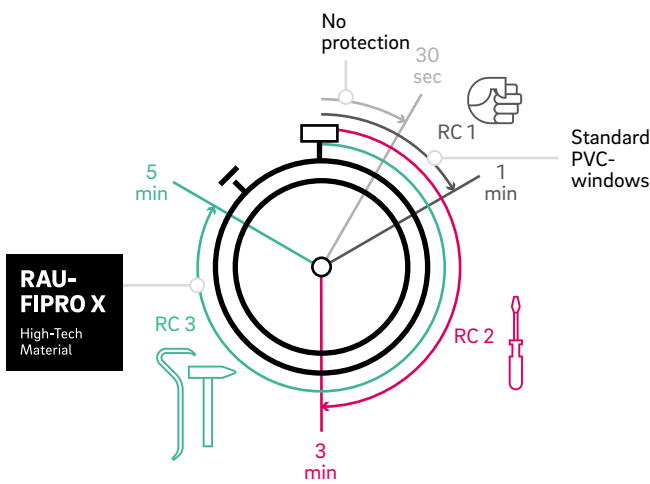
*Reduction in energy loss associated with replacing old wooden/uPVC windows built in the 1980s ($U_f = 1.9$; $U_g = 3.0$) with windows with GENE0 RAU-FIPRO X profiles ($U_f = 0.86$; $U_g = 0.5$), window size 123 x 148 cm



Passivhaus certified

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.

Thanks to the slimline profile that allows more light in to the room whilst ensuring less heat leaves it, the profiles easily meet the strict requirements of the Passivhaus Institute certification.



Safety up to resistance class RC 3

RAU-FIPRO X windows easily meet resistance class RC 2. Even the requirements of resistance class RC 3 can easily be met if the appropriate additional steps are taken. Windows with resistance class RC 1 offer little protection against break-ins, meaning that burglars can get through them in a relatively short period of time as a result. Conversely, windows in higher resistance classes need more time, and, crucially, heavier tools to break.

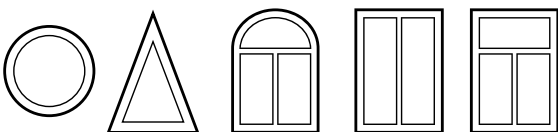
Easy to handle

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



X-tra diverse

Give your building the unique touch it deserves, and put your own stamp on it with our extensive KALEIDO COLOR colour range and exclusive window shapes.



Your home, your shape

The extraordinary stability of RAU-FIPRO X means that it's easy to create striking shapes for your windows. Unleash your creativity!

The KALEIDO COLOR range offers a huge choice of unique colours and designs. We use a range of techniques, such as KALEIDO COVER (Aluminium) or KALEIDO FOIL (lamination) to make sure you get exactly the look and surface you want. It all adds up to over 400 unique designs, and of course you can also combine different looks inside and out.



A flawless aluminium

The KALEIDO COVER aluminium cladding pairs the appearance of aluminium with the strength of RAU-FIPRO X. The surface can be painted, powder-coated or anodised in more than 170 RAL colours. Dark greys and metallic effects are bang on trend.



A natural look and feel

KALEIDO WOODEC doesn't just look deceptively realistic: it feels it, too! The matte surfaces are available in three trendy oak effects and make it near-impossible to tell wooden windows apart from polymer ones.



The finishing touch

Coloured base profiles give your windows a consistently high-quality look, even when they're open. Available in anthracite, brown, white or caramel.



LIVING SUSTAINABILITY

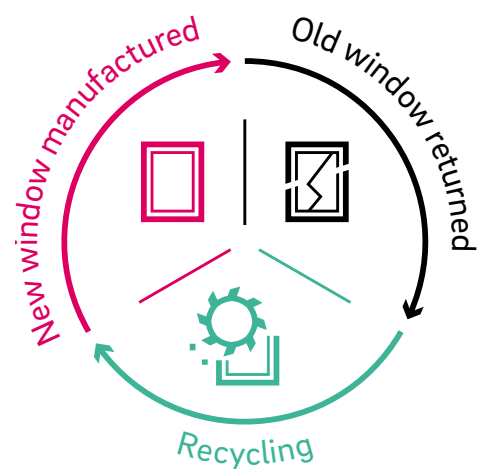
As a globally active company, REHAU bears a special responsibility to look after people and the environment alike. As a result, we're constantly working to increase energy efficiency and save resources in all our factories and products. REHAU window profiles carrying the EcoPuls label represent this positive environmental footprint.

**REHAU
EcoPuls**

Sustainability
Competence

Polymers in circulation

Old windows are turned into new, 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. REHAU is achieving CO₂ savings of up to 97,000 tons per year through this strategy alone.



Excellence in sustainability

All REHAU's European window manufacturing plants have been awarded the 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.

Savings of up to
97,000
tons of
CO₂





A strong team

RAU-FIPRO's success to date 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.

For you, this means: 86mm construction width, more than 400 designs, up to RC 3 safety, 47 dB noise protection and u-values of up to 0.60 W/m²K.



Easy to maintain

The high quality HDF (High Definition Finishing) PVCu surface sits on top of the glass fibre-reinforced RAU-FIPRO X structure. 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 leaves doorways completely level and step-free. Integrated drainage and super-easy cleaning are guaranteed to impress, as is its attractive, discreet look.



Preventative protection against break-ins

The REHAU Smart Guard alarm module can be built into the frame to detect and deter burglars, before they can do any 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 Smart 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 Smart INOVENT will ventilate your home automatically, 24 hours a day.

Change your perspective.

**Windows. Reinvented for
modern life.**





You can get RAU-FIPRO X here:

Subject to technical changes.

Please observe the relevant technical product information,
which can be obtained online at www.rehau.com/ti.

For more information, go to
www.rehau.uk

© REHAU AG + Co
Rheniumhaus
95111 Rehau

730756 EN 08.2020