



**Engineering progress  
Enhancing lives**

# **ARTEVO** **premium windows** **perfectly developed**

Stylish. Powerful. Perfect.  
Windows reinvented. For modern life.



# The art of improving on greatness

Developed at REHAU in 2008 with a bold vision, our glass-fibre reinforced plastic material RAU-FIPRO X is already an unparalleled success story that has revolutionised the window market. REHAU has always been defined by groundbreaking innovations. We are now carrying on this tradition. ARTEVO - the art of reinventing yourself every day.

## We are proud to present: ARTEVO

The symbiosis of the proven high-tech material RAU-FIPRO X and outstanding REHAU technological expertise allows the material's full potential to be used. This results in all-round optimal performance with the most efficient use of materials in a system which is superior in every respect. Or as we call it: ARTEVO.

## RAU-FIPRO X

High-Tech Material

**Largest possible window sizes with clean lines** create a unique feeling of space along with a premium look.

**An impressive variety of colours and finishes** allows for endless combinations.

**Top-level thermal performance** maximises energy efficiency.

**Extra comfort and security** help you feel truly at home.

**Unique circular economy ensures** sustainability across the board.

**Smart features and clever add-ons** make for windows that are simply capable of more.





**Aspiration and promise  
rolled into one**

**ART**

Its timeless, modern and perfectly  
formed design makes it a  
contemporary classic.

**EVOLUTION**

Expertise combined into one system:  
Innovation and progress that  
positively change the world.

**ARTEVO. Windows reinvented.  
For modern life.**

## **When less becomes more**

REHAU's material and technological expertise allows us to use resources efficiently without compromising on performance. What does this mean? *Many more advantages!*



### More stability

Thanks to the optimised use of RAU-FIPRO X, ARTEVO is pushing the limits of what is possible further than ever. This allows us to raise the bar in terms of energy efficiency, size, design, comfort, safety and sustainability.

**More information on page 6.**

### Improved energy efficiency

ARTEVO impresses with its optimal design, which can be improved even further with the optional use of the new, innovative REHAU LowE profile technology.

**More information on page 7.**

### Better design and more sizes

ARTEVO ensures exceptional views both of it and through it with its linear design and floor-to-ceiling size elements with no additional top-lights.

**More information from page 8 onwards.**

### More design possibilities

There is nothing quite as unique as the individual ideas you have for your own dream home, so ARTEVO can inspire you with its virtually infinite scope for personal touches in terms of colour and surface finish.

**More information from page 10 onwards.**

### Maximum comfort and security

Everyone who chooses ARTEVO benefits from outstanding properties in terms of sound and intruder protection, and enjoys comfort across the board.

**More information from page 12 onwards.**

### More sustainability

From production that maximises use of recycled materials to the recycling of used windows, ARTEVO windows also score highly in terms of eco-balance.

**More information from page 14 onwards.**

### More smart options and clever add-ons

In addition to windows, REHAU offers a wide range of additional options that can enhance any home.

**More information from page 16 onwards.**

# Ultra-strong, ultra-energy-efficient

The new generation of fibre-reinforced profile systems offers top performance in every area – including very high energy efficiency.

## Strength across the board

When materials have to meet the highest requirements for stability and performance, fibre-reinforced composites are always used. RAU-FIPRO X also combines the top properties of plastic and glass fibre to create a unique material.

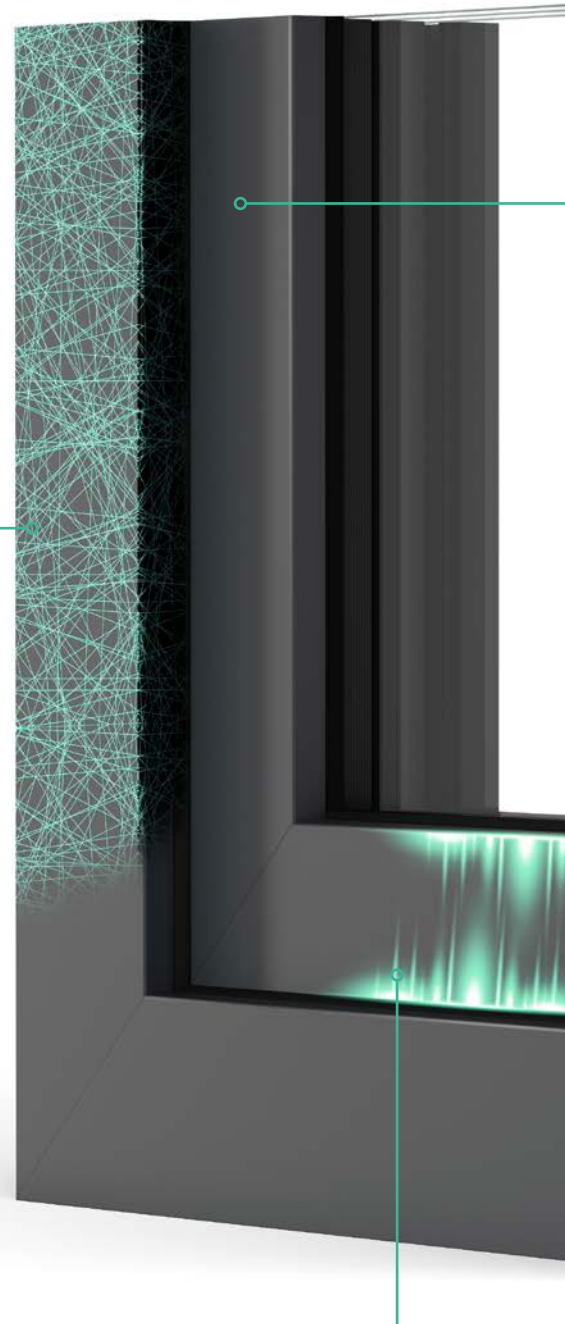
The integration of the fibre composite material in the entire cross-section of the ARTEVO window profiles ensures a completely even and reliable load transfer.

**RAU-  
FIPRO X**

High-Tech  
Material

## Clever product design

Reinforced zones in the outer walls of the window sashes provide additional stability and torsional rigidity.



**Energy  
savings of  
up to 78%**

### No risk of heat loss

The majority of ARTEVO's elements do not require steel reinforcement, meaning that there is no risk of thermal bridges which lead to heat loss. By avoiding use of steel, ARTEVO profiles achieve  $U_f$  values of up to  $0.97 \text{ W}/(\text{m}^2\text{K})$ .

Large glass surfaces are also suitable for generating solar energy.

### LowE profile technology – taking energy efficiency to a new level

ARTEVO max offers additional, innovative REHAU LowE profile technology. By using LowE film in the frame and sash,  $U_f$  values as low as  $0.81 \text{ W}/(\text{m}^2\text{K})$  can be achieved. In combination with triple glazing, they achieve amazing  $U_w$  values as low as  $0.61 \text{ W}/(\text{m}^2\text{K})$  and enable energy savings of up to 78%.\*



#### Easy to achieve passive house standard

ARTEVO max window profiles are certified by the Passive House Institute in Darmstadt and easily meet the strict requirements of the Swiss Minergie-P certification.

\* 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 ARTEVO profiles ( $U_f = 0.84$ ;  $U_g = 0.4$ ), window size 123 x 148 cm.

# Strikingly subtle design

Dimensions that could previously only be achieved with aluminium, clean lines and a high-quality look enable sophisticated architectural choices.

Clear, angular contours ensure unbeatable aesthetics. Extra-narrow profiles and the slim middle section make the glass surfaces even larger, giving rise to new architectural options with a maximum of natural light.

**Straightforward design language that works in every environment.**



## **Flush sash**

Aesthetic and simple: flush window sashes are making a comeback and they create a sense of calm.

## **Slim design sash**

The ultra-slim designer sash stands out with its delicate look and lets even more light in.



## **A flawless aluminium experience**

ARTEVO allows windows to be made in sizes previously only available in aluminium. The windows also impress with their high-quality aluminium look when combined with the KALEIDO COVER facing panels.





Up to  
2.8  
metres  
high



**Floor to ceiling window elements  
without top-lights**

Demand for larger windows has never been so high. ARTEVO redefines the limits of what is possible in terms of size and allows for a completely new sense of living with rooms flooded with light.



Over  
2,000  
design  
options

## This is how ARTEVO becomes an individual experience

In addition to its timeless elegance, ARTEVO impresses by allowing space for creativity and customisation in terms of colour and surface.

### **Practically unlimited possibilities**

The KALEIDO COLOR range offers a huge choice of unique colours and designs. We use different processes depending on the desired look and surface structure.



**The KALEIDO COLOR programme at a glance**



**KALEIDO COVER**

The perfect aluminium look: aluminium cladding combines a high-class appearance with the technical advantages of PVC-U windows.

**KALEIDO WOODEC**

A deceptively convincing timber appearance and feel with a matt finish and deep embossing. This means that PVC-U windows are almost impossible to tell apart from their wooden counterparts.

**KALEIDO FOIL**

A proven standard process with two-layer PVC laminate: The base film provides the desired colour and the transparent top layer protects against damage and environmental influences.

**KALEIDO PAINT**


Limitless possibilities with elegant, water-based paint with a smooth or textured finish in over 2,000 shades. More than 30 years of lacquering experience make for uncompromising quality.

**When you want to mix things up**

Want to combine different looks inside and outside? No problem!



External: KALEIDO COVER, anthracite



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



Internal KALEIDO WOODEC, Turner Oak Malt



# Comfort and safety in equal measure

Thanks to the ARTEVO profiles' reinforcing glass fibre components, the 80 mm system can easily handle the weight of sound insulating or laminated safety glass.



## 0 mm sill

### Barrier-free access without trip hazards

In fact, it's not fair to call it a "sill", because thanks to its 0 mm installation height, the RAUCERO\* threshold offers floor-level access without tripping hazards. The clever bridging seal prevents marks on the floor and the threshold. Cleaning is also child's play thanks to the removable stainless steel grate.



## RC 3 security

### Keep intruders at bay

ARTEVO windows achieve resistance class RC 2 with ease, even without steel reinforcements. The requirements of resistance class RC 3 can also be fulfilled with appropriate additional measures.\* Standard windows have low burglary protection and can therefore be broken into quickly. Windows with resistance class RC 2 or RC 3, on the other hand, take significantly longer and, above all, require heavy tools to be breached.

\* Available from the first quarter of 2024.

\* Subject to final review in the third quarter of 2023.



**0 mm  
ground sill**

**Easy to maintain**

In addition to the fibre-reinforced basic structure made from RAU-FIPRO X, white windows are given an elegant HDF surface (High Definition Finishing). It is extremely smooth, dirt-resistant and easy to clean, as well as being highly resistant to weathering.



**97% less noise**

**Enjoy your home again**

Noise, even if imperceptible, is associated with negative health outcomes. ARTEVO windows can help improve your quality of life. Why? Because they reduce noise by up to 48 decibels. This corresponds to an almost 97% reduction in the noise heard by the human ear.



**100% comfort**

**Made for everyday use**

Another benefit is that there is no need for steel reinforcements for the majority of ARTEVO elements. Their low weight makes handling them easier, even for large sashes. In addition, the sophisticated sealing geometry reduces the closing pressure and ensures feather-light opening and closing.

# Life-long responsibility – and beyond

ARTEVO has been awarded with the EcoPuls label and is part of the REHAU circular economy. With a recycled content of up to 75%, the system makes an active contribution to a more sustainable future.

At REHAU we've been working continuously for more than 30 years to increase the proportion of recycled plastic in our window systems. Innovations, such as REHAU Window.ID, help us identify valuable materials and reuse them as raw materials of the future.



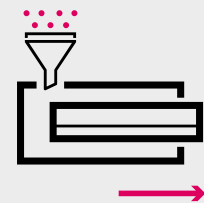
Recycled materials in the ARTEVO profile core and in the glazing beads.

100% of recycling all in-house



## Production

All of REHAU's European plants have been certified by the independent VinylPlus product label as a result of their sustainable production processes.



## Extrusion

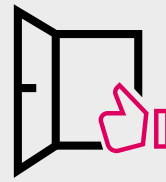
The unique REHAU coextrusion process enables the production of window and accessory profiles made of recycled material on the inside. Over **60%** of REHAU's production tonnage already has recycled content of up to **75%**.





## Products

When it comes to closed-loop recycling, REHAU EcoPuls window profile systems are unique in the window industry. They result in annual CO<sub>2</sub> savings of up to **97,000 tonnes**, the equivalent of around **7.8 million trees** on an area of about **137,000** football pitches.



## Use

REHAU's premium quality always guarantees the longest possible lifespan for our windows which, thanks to their high energy efficiency, also contribute significantly to the preservation of resources.

### Maximum thermal insulation, maximum recycling

ARTEVO max is the version that uses innovative REHAU LowE profile technology for windows with passive house certification. Passive-house-certified PVC windows usually require additional additional thermal inserts made of PU or PS foam. This has to be treated separately in the recycling process, which is very expensive. The LowE film, on the other hand, can easily be included in the normal recycling process.

# Our circular economy

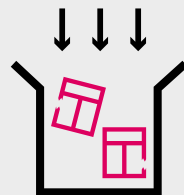
**REHAU  
EcoPuls**

Sustainability  
Competence



## Identification

Millions of old PVC windows are a valuable resource for making new windows. The REHAU Window.ID, the digital window tag, makes it obvious where the raw materials of the future are fitted. This makes it easier for materials to be returned into the recycling loop later on.



## Collection

In order to ensure effective recovery of used materials, we have established a pan-European network of around 2,000 partners for collecting it. As an industry specialist, REHAU subsidiary DEKURA produces around **40,000 tonnes** of material for new PVC windows every year.



## Recycling

Complete old windows are separated into different materials (e.g. plastic, glass and metal) and then recycled. Most crucial for us are the PVC parts which come primarily from the old window profiles. These are processed into high-quality recycling granules. This saves up to **88%** of CO<sub>2</sub> emissions compared to the production of new PVC.

# Smart features and clever add-ons for a modern home

ARTEVO not only impresses with its outstanding design – its sophisticated accessories also take the windows to a whole new level.

## Privacy at the touch of a button

At the touch of a button, REHAU Smart Privacy transforms the living space into a private oasis of well-being with switchable glass in a simple frosted look which still allows light to flood in. The smart privacy function lets you choose between enjoying the view outside and keeping your privacy.



## Preventive protection against break-ins

The REHAU Smart Guard detects intruders and actively deters them before any damage can occur. In the event of an emergency, the main alarm is triggered wirelessly. You also have the option to integrate this into smart home systems, such as Mediola. You can then conveniently control everything via the associated app.



**A stylish look and a spectacular view**

The anti-fall French balcony SKYFORCE combines certified safety with the highest aesthetic standards. It enhances the clear lines of ARTEVO and the façades, and there are no visible screws.

**Elegant and secure**

The simple look of the LINEA range of handles harmonises perfectly with the straight contours of ARTEVO windows. A patented locking mechanism provides additional safety, making it harder for intruders to push it open from outside.





# ARTEVO in detail

The unbeatable specifications of a premium system



## ARTEVO windows, balcony and terrace doors

### Technical data

Visible width of frame/sash:	106 mm to 173 mm (Switzerland: 106 mm to 184 mm)
Construction depth:	80 mm
Thermal insulation $U_f$ (EN 12412-2 / EN 10077-2):	ARTEVO up to 0.97 W/(m <sup>2</sup> K) ARTEVO max 0.81 W/(m <sup>2</sup> K)
Sound insulation $R_w$ (EN ISO 717-1):	up to 48 dB
Burglar resistance (EN 1627):	up to Class RC 3*
Resistance to wind load (EN 12210):	up to class B5
Watertightness (EN 12208):	up to class 9A
Air permeability (EN 12207):	up to class 4
Maximum pane thickness:	56 mm or 72 mm with flush sash

\* Subject to final review in the third quarter of 2023.





# ARTEVO. Superior in every way.

Windows reinvented.  
For modern life.

To benefit from Artevo, contact:

Subject to technical modifications.

For more information, visit  
[fenster.rehau.de/artevo-fenster](https://fenster.rehau.de/artevo-fenster)  
[fenster.rehau.at/artevo-fenster](https://fenster.rehau.at/artevo-fenster)  
[fenster.rehau.ch/artevo-fenster](https://fenster.rehau.ch/artevo-fenster)

Please observe the relevant technical product information, which can be obtained online at [www.rehau.com/ti](http://www.rehau.com/ti). Subject to technical changes

This document is protected by copyright. All rights based on this are reserved. No part of this publication may be translated, reproduced or transmitted in any form or by any similar means, electronic or mechanical, photocopying, recording or otherwise, or stored in a data retrieval system

© REHAU Industries SE & Co. KG  
Rheniumhaus  
Helmut-Wagner-Str. 1  
95111 Rehau

680831-001 EN 07.2023