

GENEO[®]
TECHNICAL INFORMATION
SYSTEM DESCRIPTION

Table of Contents

Description, Technical Data2

Examples of Opening Types2

Features and Benefits - Windows3

Features and Benefits - Doors5

GENEO®

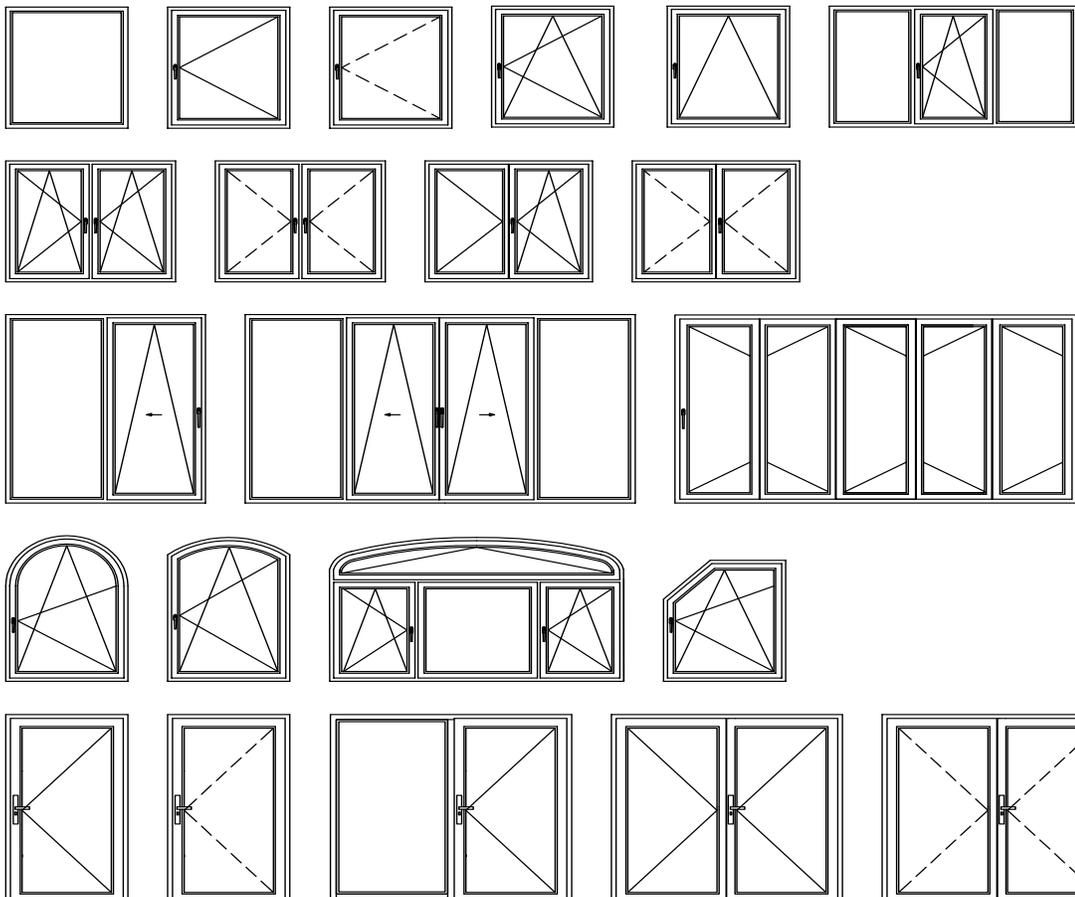
SYSTEM DESCRIPTION

Description, Technical Data

Frame Material: Surface layer	RAU-PVC, formulated free of cadmium and lead.
Frame Material: Core	RAU-FIPRO®: fiber-reinforced RAU-PVC.
Sealing System	Center seal
Design Depth	3.39 in (86 mm)
Number of Chambers	6
Frame / Sash Overlap	Exterior: 0.197 in (5 mm), Interior: 0.315 in (8 mm)
Sealing Gap	Exterior: 0.197 in (5 mm), Interior: 0.157 in (4 mm)
Hardware Axis	0.512 in (13 mm)
Maximum Glass Thickness	2.087 in (53 mm)
Sightlines Frame / Sash [Door Frame / Sash]	4.213 in to 6.142 in (115 mm to 156 mm) [6.654 in (169 mm)]
U-values GENEO®	Down to 0.13* (Btu/hr-ft²°F); Ask REHAU Sales office for actual test reports
U-values GENEO® passive house certified	Ask REHAU Sales office for actual test reports
Structural Tests	Up to design pressures of 95 psf; Ask REHAU Sales office for actual test reports
Sound Reduction	Up to 47 dB (based on European Test Reports)

* based on Simulation

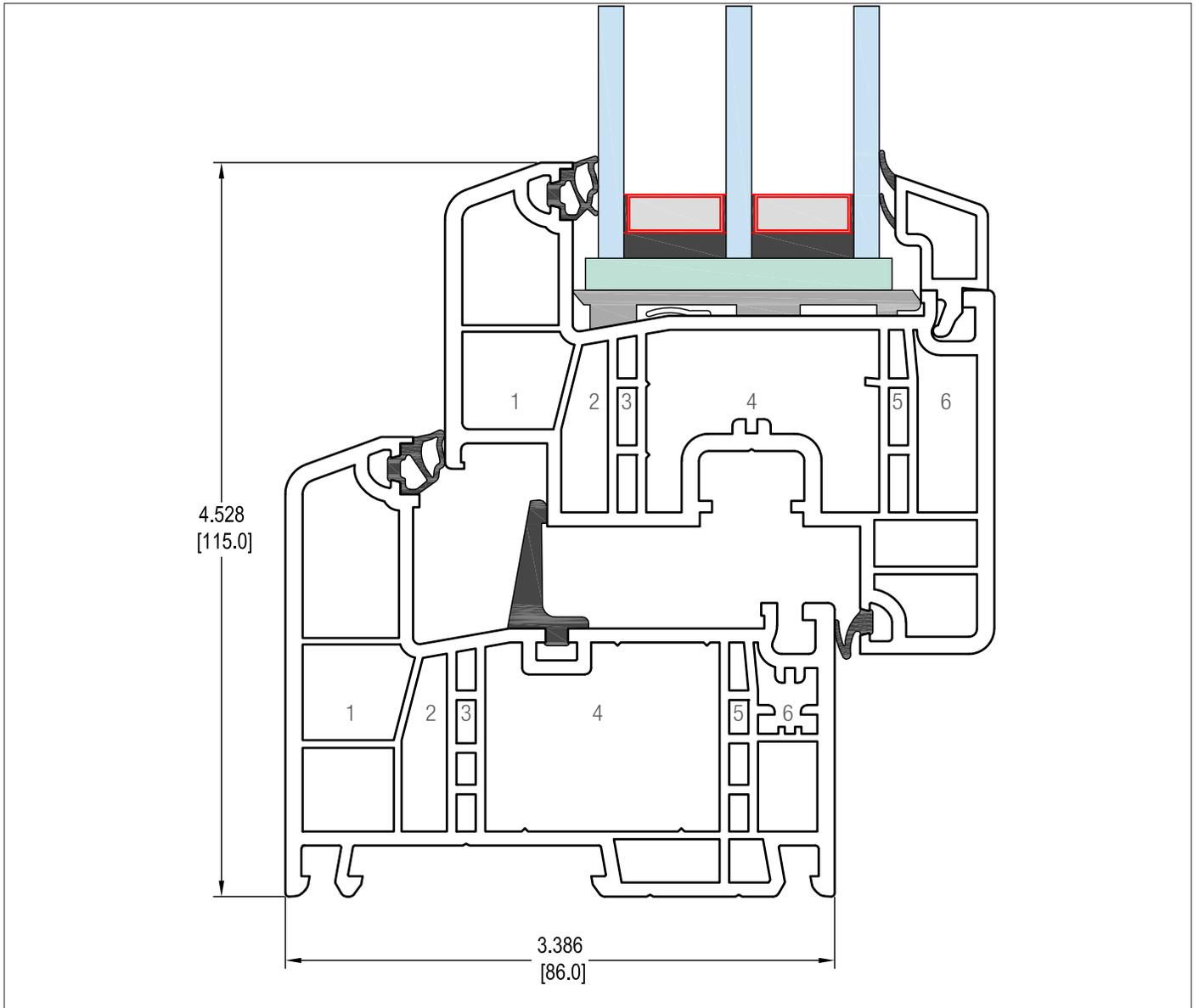
Examples of Opening Types



GENEO®

SYSTEM DESCRIPTION

Features and Benefits - Windows



Fully reinforced main profiles

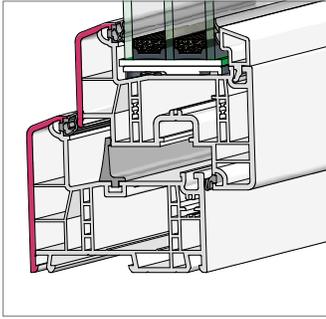
Due to the highly durable, reinforced RAU-FIPRO material, steel reinforcements for standard element sizes are not necessary. Thus, the thermal insulation is optimized and the weight of the elements is reduced by up to 40%. The extremely strong material additionally enables elegant and slender profile face widths even with larger elements.

Optimized thermal insulation

In conjunction with our 6-chamber technology, the center seal in the window frame, an increased glass bite, the convection barrier in the sash and reduced requirement steel reinforcement, the system achieves outstanding thermal performance even without the need for additional insulation measures.

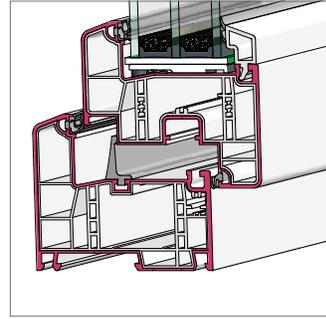
Streamlined manufacturing and economical storage

The reduction of steel reinforcement translates to substantially lower costs for production and storage.



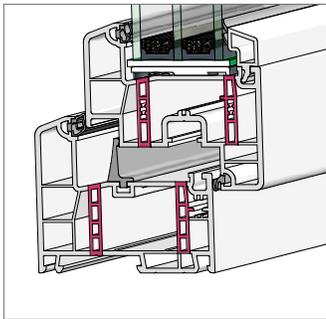
Attractive design

Slender and elegant profile face width, perfectly formed and harmonious design due to the prominent radii and slanted sections. The recessed design of the sash hallmarks the classic window type.



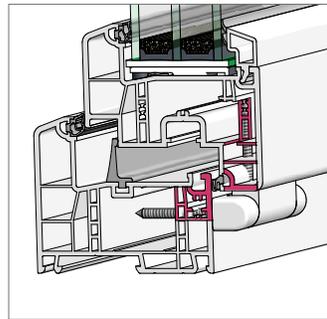
High-definition finish (HDF)

Smooth and weather-resistant finishes due to a surrounding, coextruded outer layer made of RAU-PVC over the center reinforcement made of RAU-FIPRO.



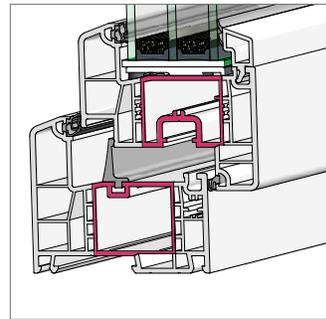
Integrated reinforcement system (IRS)

The torsional rigidity of the profiles is increased through the integrated reinforcement system (IRS). The keeper screws, up to and including class RC2, and the mechanical T-Mullion connector are fastened into the IRS as well.



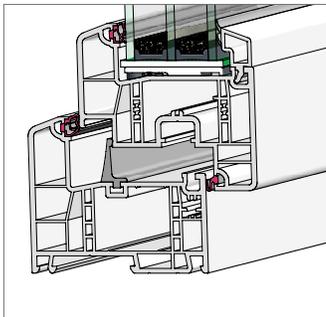
Secure hardware fastening

Highest pull-out strength of the supporting hardware due to the screw connection into the IRS of the sash profile as well as the additionally reinforced screw alignment nubs in the frame profile.



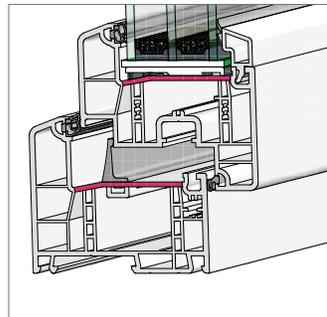
Optimized profile features

The static or heat insulating properties of the profiles can be optimized depending on usage through appropriate inserts.



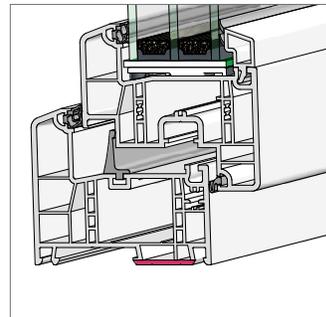
Sealing concept

The coextruded seals can be welded without special welding blocks. The result is minimal closing pressure due to the optimized seal design and a large sealing gap.



Channel design

Due to the large rebate depth, heat-insulating glazing up to a thickness of 2.087 in (53 mm) can be used.



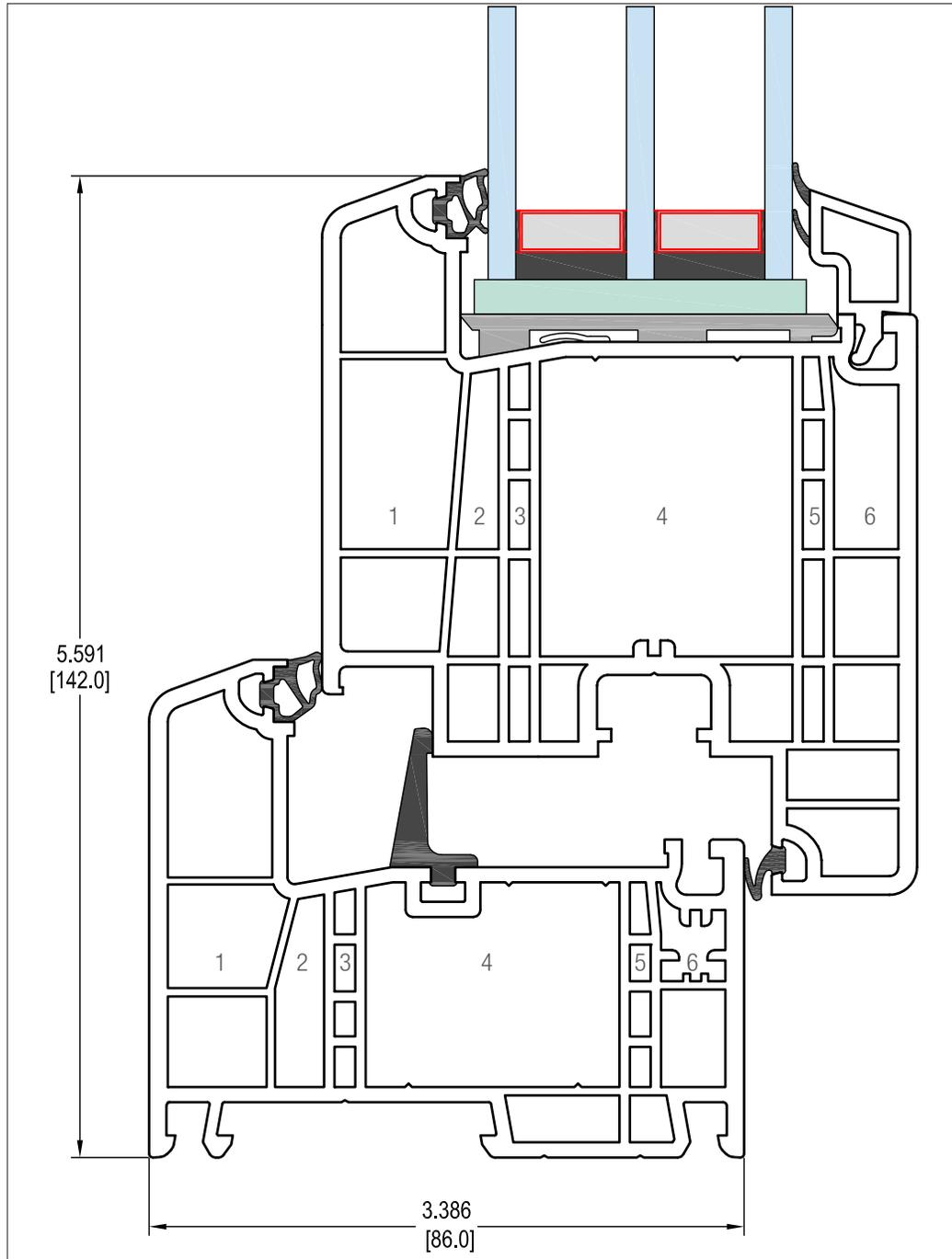
Attachment to the structure

The integrated installation surface allows for an optimal seal of the frame to the structure. Due to the additional chambers in the accessory groove, the heat insulation is optimized even further.

GENEO®

SYSTEM DESCRIPTION

Features and Benefits - Doors



Fully reinforced main profiles

Due to the highly durable, reinforced RAU-FIPRO material, steel reinforcements for standard door sizes are less necessary. Thus, the thermal insulation is optimized and the weight of the door is reduced by up to 40%.

Optimized thermal insulation

In conjunction with our 6-chamber technology, the center seal in the door frame, an increased glass bite, the convection barrier in the sash, and reduced requirement steel reinforcement, the system achieves outstanding thermal performance even without the need for additional insulation measures.

Streamlined manufacturing and economical storage

The reduction of steel reinforcement translates to substantially lower costs for production and storage.

Design

An extraordinary and high-quality door design can be implemented due to a newly developed, concealed door hinge.

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