



# Barrier 70

## Ideal for building rehabilitation

During redevelopment projects, replacing windows is a primary operation. That is why, **Barrier**® meets your requirements with a quality product, which is both balanced and economical. **Barrier 70** windows will provide a level of thermal and sound insulation above standard and a special design, without overstraining your budget.

As we are still on the topic of calculated choices, **Barrier 70** windows can be successfully used in any works of redevelopment, not only for homes. Do you have a bed and breakfast, small office building, holiday house or perhaps you manage public funds, where efficiency should be the first word? **Barrier 70** is all you need in terms of window and doors.

## Warranty of **Barrier**® windows and doors

Quality of **Barrier**® windows and doors proves our responsibility and high professionalism in manufacturing and mounting them. Warranty of **Barrier**® windows and doors is 5 years. Average life expectancy is 15 years for fittings and 20 years for PVC profiles.

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- Barrier 60
- Barrier 70**
- Barrier 86
- Barrier 100
- Barrier Doors
- Barrier Garage
- Barrier Architect

windows and doors that protect your home



# Barrier 70

windows and doors with PVC REHAU Euro-Design 70 / REHAU Brillant-Design profiles

## Ideal for building rehabilitation

**Barrier 70** windows and doors meet insulation requirements that are above standard ones and provide long-term stability, at an optimal implementation cost.

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Barrier® Representative





balance

quality for building rehabilitation

**Barrier 70**

**Barrier 70** - a wise step forward

Main function of a home is to provide protection and comfort, and your home is no exception. Upgrading it to a higher standard is a complex and expensive process. For various reasons, this operation is sometimes carried out in several stages. You are fully aware that replacing windows is a primary operation. Therefore, we are here to meet your needs with a quality product, which is both balanced and economical. **Barrier 70** windows will provide a level of thermal and sound insulation above standard and a special design, without overstraining your budget.

Peace and safety that you are looking for

Relaxation is the first sign of a happy home, and the choices you make regarding the peace and safety of your home are highly important. Because we think only of your comfort and safety, we equipped **Barrier 70** windows with top of the line anti-burglary fittings and high performance glass packages, adequate for increased thermal and sound insulation. **Barrier 70** is configurable depending on the particular demands of the environment, as well as your needs.

**Barrier 70** means balanced comfort

Materials used to manufacture **Barrier 70** windows are of the highest quality. Top of the line PVC profiles from REHAU together with the expertise of leaders in this field are reflected in the resistance of **Barrier**® products. **Barrier 70** windows offer long life, stable quality and easy maintenance. In time you will feel the actual amortisation of energy costs due to above standard thermal insulation provided by **Barrier 70** windows. Invoices will be increasingly smaller, thus supporting your comfort.

***Barrier**® is a strong brand, and we provide only high-quality products. Having you as our customer means we will answer your needs by providing the best materials, most advanced technologies and well-trained and dedicated consultants, so that when it comes to quality windows, the first word that comes to your mind is **Barrier**.*







**Barrier 70** windows are suitable for works of thermal rehabilitation, restyle or redevelopment

You have a home and want to make some improvements. You have a budget and would like to manage it as efficiently as possible, thus completing as many works as possible. Given the fact that an overwhelming percentage of redevelopment works involves changing old windows, you have all the conditions to evaluate **Barrier 70** windows. They provide a wise solution: better windows, with an economic budget. What does "better" mean? It's simple: windows with performance that surpass the characteristics of most PVC joinery from an earlier generation, in a horizon of 5-6 years, not to mention old wooden joinery. What does "more economical" mean? Again, it's simple: best value at paid price. In order to make an objective choice, you need to take into consideration the decrease of heating bills as well as windows reliability over time.

While we are still on the topic of economical choices, **Barrier 70** windows can be successfully used in any works of redevelopment, not only for homes. Do you have a guest house, small office building, holiday house or perhaps you manage public funds, where efficiency should be the first word? **Barrier 70** is all you need in terms of windows and doors.

#### Main characteristics of **Barrier 70** windows

Quality materials: top REHAU profiles, packages with 2 or 3 glass sheets, ROTO fittings, wide range of accessories.

Heat transfer coefficients  $U_f$  from 1.2 W/m<sup>2</sup>K, adaptation up to noise protection class 4 or anti-burglary protection class WK3.

Special resistance to extreme weather phenomena, strong wind gusts or showery rains.

Possibility of mounting the intelligent ventilation system AIR Comfort from REHAU, which allows the entrance of fresh air without opening the window. When wind pressure increases, air currents are blocked, and the system automatically shuts.



Do you have a project in mind?

Consider using **Barrier 70** windows from the early stage of design. Details presented by our **Barrier**® consultants will help you have adequate, properly configured, in a nutshell, perfect windows.



## REHAU Euro-Design 70®

★★★★☆ Class A, B

**profile material**  
PVC

**thermal insulation coefficient**  
Uf up to 1.3 W/m²K

**soundproofing class**  
4

**anti-burglary protection**  
up to class WK2

**profile thickness**  
70 mm

**visible width of profile**  
96 mm

**number of constructive chambers**  
5 chambers

**chamber rooms thickness**  
3 mm (class A), 2.8 mm (class B)

**gaskets**  
2 rows, black

**fittings**  
visible (ROTO or ROTO Lux)

**glass packages (min/max, mm)**  
24 - 40 mm

**profile surface**  
HDF - smooth, compact, easy to maintain

**colours**  
wide range - laminating or painting

**aluminium plating on the outside**  
not available

**ventilation**  
Air Clima - optional



### REHAU Euro-Design 70® means balance, style and comfort

REHAU Euro-Design 70® successfully manages to balance high characteristics of profiles and investment in windows at a reasonable price. In a nutshell, the performance of REHAU Euro-Design 70® windows will prove that you made a great deal when you decided to have them mounted in your home. Therefore, if during the process of upgrading your home you decide to discard wooden and antique windows, and mount windows with REHAU Euro-Design 70® profiles, choosing a package of 3-glass sheets, you will save up to 75%\* of energy losses that you used to have before. **Barrier 70** is synonymous with making a responsible and wise choice for the comfort and money-saving of your family.

\* - Calculation is done for an old wooden window (123 x 148 cm), with nominal values according to European Standard DIN EN 10077-1.

For more technical information or further explanations of definitions or effects of different parameters, please talk to a consultant **Barrier**®.

#### Mounting **Barrier 70** windows

*In order for a window to meet designed parameters, it needs a quality mounting, according to all the rules of this art. Solbanc profile is very important for correctly mounting window sills, indoor and outdoor mounting sheets guarantee a perfect fitting between windows and building walls.*

## REHAU Brillant-Design®

## Barrier 70

Class A ★★★★★☆

**profile material**  
PVC

**thermal insulation coefficient**  
Uf up to 1.2W/m²K (thermosensitive REHAU reinforcement)

**soundproofing class**  
5

**anti-burglary protection**  
up to class WK3

**profile thickness**  
70 mm, 80 mm optional

**visible width of profile**  
96 mm

**number of constructive chambers**  
5 chambers (6 chambers of 80 mm)

**chamber rooms thickness**  
3 mm

**gaskets**  
2 rows, black

**fittings**  
visible (ROTO or ROTO Lux)

**glass packages (min/max, mm)**  
24 - 40 mm

**profile surface**  
HDF - smooth, compact, easy to maintain

**colours**  
wide range - laminating or painting

**aluminium plating on the outside**  
optional

**ventilation**  
Air Clima - optional



### REHAU Brillant-Design® - a profile filled with radiance

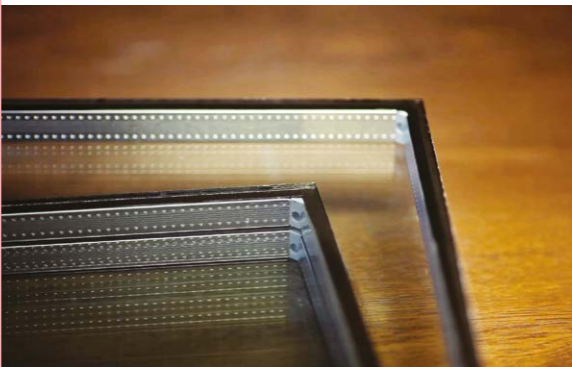
In the category of **Barrier 70** products, REHAU Brillant-Design® products are among the highest ranking ones. Windows manufactured with these profiles and matching accessories provide very good insulating characteristics. For example, using special reinforcement with thermal barrier increases the heat transfer coefficient up to Uf = 1.2 W/m²K. Using appropriate ROTO Lux fittings increases the level of anti-burglary protection to class WK3.

#### Image does matter

REHAU Brillant-Design® profiles improve your windows by providing an elegant appearance, modern and shiny surfaces. A round leaf brings harmony to the overall picture.



High level of brightness provides a premium picture due to the formula for HDF (High Definition Finishing) surfaces developed by REHAU®, and at the same time they are very easy to maintain.



**TOP 40 / 32 mm glass package**

**light transmission**

58 - 73%

**noise attenuation**

32% (40 mm) or 31% (32 mm)

**heat transfer coefficient (Ug)**

1.1 W/m<sup>2</sup>K (without inert gas)  
0.8 W/m<sup>2</sup>K (with inert gas)

**24 mm glass package**

**light transmission**

65 - 80%

**noise attenuation**

30%

**heat transfer coefficient (Ug)**

2.6 W/m<sup>2</sup>K (without inert gas)  
1.1 W/m<sup>2</sup>K (with inert gas)



**Barrier 70 glass packages, with 2 or 3 glass sheets**

On average glass represents 90% of the surface of a woodwork panel. For this reason, proper configuration of the glass package is highly important in order to uniform set that provides thermal and sound insulation.

**Barrier 70** recommends three glass packages, one with 2 sheets (24 mm) and two with 3 sheets, with 32 or 40 mm thickness. TERMIX spacer rods, made of plastic with steel insert, have low energy transfer, eliminating the appearance of condensed water in the outer perimeter of the glass. Optional, with the help of inert gas insertion between the glass sheets (argon or krypton), the thermal characteristics of a glass package are significantly improved.

Orientation towards the cardinal points is important for optimum performance of the glass package. Therefore, **Barrier 70** provides optional solutions to increase its effectiveness. For a southern or western orientation of your windows, you can opt for 45 reflective glass, and for northern/north-eastern orientation, we recommend two Low-E sheets.

Basic structure of a 3 sheet glass set consists of a SGG Planitherm 4S glass sheet (outside), a float glass sheet (middle) and a Low-E glass sheet (interior). In general, the thickness of glass sheets is 4 mm (6 mm for sizes exceeding 1,500 mm).



**Barrier 70** provides good and proper performance

The functions of quality fittings must be ensured for a long period of time. Wear resistance, during constant and intense duty, depends a lot on the quality of profiles, but especially on the quality of fittings. As for **Barrier 70** windows, where an additional weight of a 3 sheet glass package is added to daily requirements, the need for resistant fittings is mandatory.

Types of fittings provided by **Barrier 70** are ROTO Lux, with visible hinges, or ROTO, basic design.

A second important function of fittings is to protect indoor areas against burglary. Special blocking elements, as well as other security features, allow us to establish the resistance class for each window and door, so that you feel safe.



**Basic security - very hard to access windows.**

**Resistance class 1 (WK1)** - minimum protection against the use of lever-type tools.

**Resistance class 2 (WK2)** - improved protection against the use of simple tools (screwdrivers, pliers, blades).

**Resistance class 3 (WK3)** - optimal protection against the use of heavy tools such as a claw crowbar

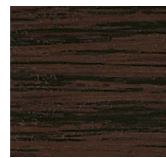




standard colours



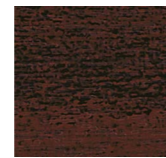
granular brown  
code 9631



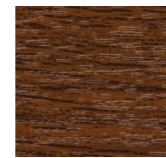
dark oak 2  
code 4914



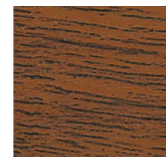
dark oak 1  
code 9638



mahogany  
code 9632



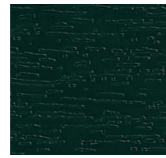
granular walnut  
code 225L



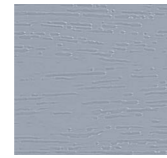
golden oak  
code 7512



grey-anthracite  
code 4443 / RAL 7016\*



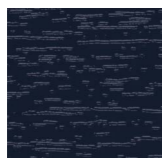
dark green  
code 9773 / RAL 6009\*



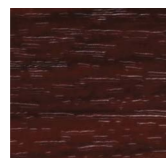
grey  
code 9922 / RAL 7001\*

Renolit, Exofol or Hornschuch foils, used by **Barrier®**, are among the most resistant on the market. Regardless of the number of years that have passed, the profiles will look as great as they did on the first day. **Barrier 70** windows provide a wide colour range.

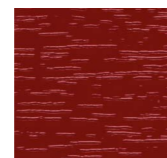
non-standard colours



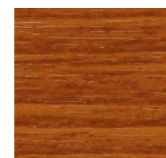
granular blue steel  
code 4681 / RAL 5011\*



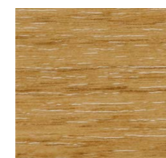
granular black cherry  
code 168L



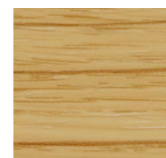
dark red  
code 9792 / RAL 3011\*



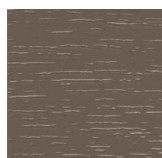
Douglas pine  
code 4404



Irish oak  
code 913L



granular dark oak  
code 9910



granular grey-quartz  
code 1014L / RAL 7039\*



granular grey-basalt  
code 134L / RAL 7012\*



grooved aluminium  
code 1049L



light grey  
code 7666 / RAL 7035\*



granular cream  
code 4444 / RAL 9001\*



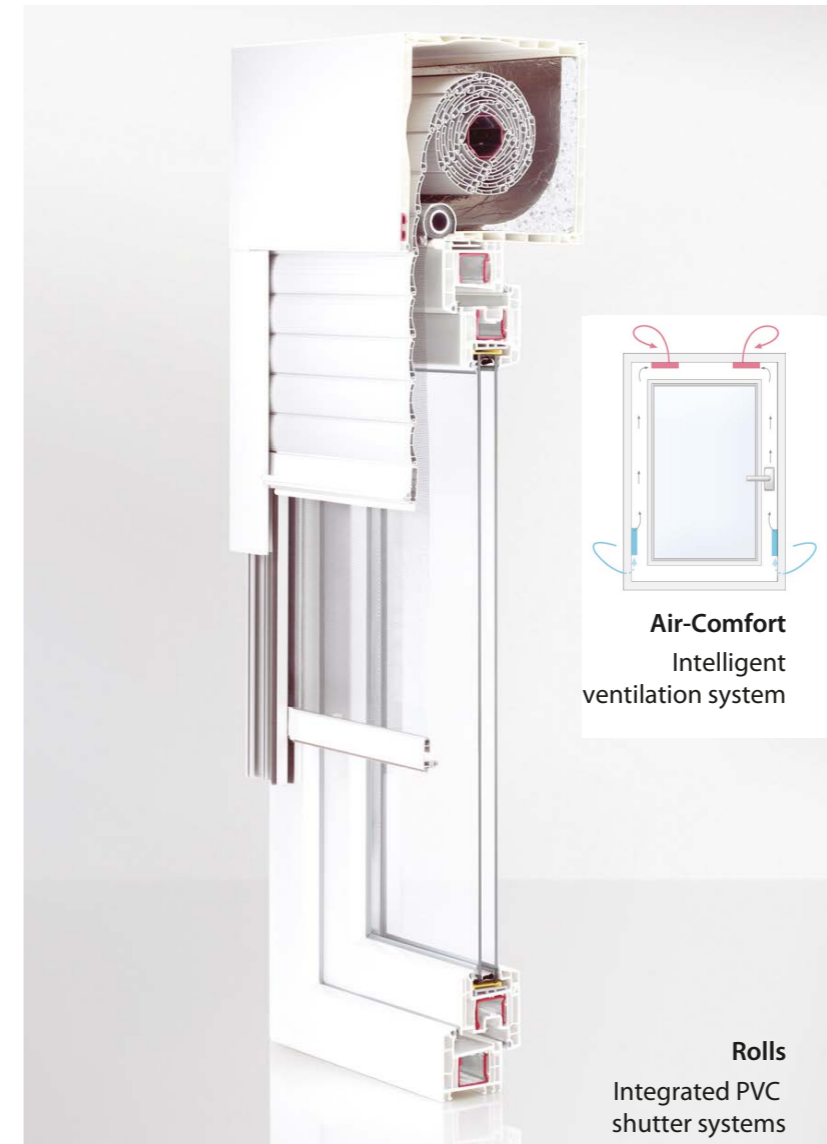
granular white  
code 9734

\* - recommended RAL colours. Before choosing the final colour, RAL codes are checked for each case.

We know no limits when discussing the colours of your windows' profiles. **Barrier®** uses the latest and most efficient technology to wrap profiles.

By choosing the colour and texture of a foil, your **Barrier 70** windows become active and unique elements in your home.

You can also choose painted profiles, in a range of 150 RAL colours.



**Air-Comfort**  
Intelligent  
ventilation system

**Rolls**  
Integrated PVC  
shutter systems



Electric operation of rolls



Mechanical operation of rolls



Blinds - outdoor view



**Sills**  
Protection inside and  
outside



**PVC blinds**  
Protection from sunlight,  
added privacy