

greenEvolution

# box

The design variant  
with a flush installation.



Thick glazing makes it  
sound proof and safe

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Elegant design with  
an angular appearance

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Low viewing height for  
optimum use of the glass  
surface

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# Windows are always individual and a value driver

Windows make up just a small percentage of the construction costs yet have a major impact on the home:

- Windows which match the style of the building give the home a face and increase the value of the property.
- Daylight enhances the ambiance in the home and has a positive effect on physical and mental well-being.
- The energy input of well-insulated windows has the same effect as a heating system.
- Between 25 and 50 % of heating costs and the associated CO<sub>2</sub> pollution can be reduced thanks to modern windows.
- Windows ensure optimized control of the indoor climate.
- The right windows can slash the risk of burglary by 80 %.
- Noise pollution from the outside can be reduced by up to 75 % in urban regions with suitable windows.

The site, building and residents are all unique. Therefore, there is no such thing as a perfect standard window solution to suit all demands. Price as the sole decision-making criterion does not go far enough. Windows must be configured to the specific requirements in order to become "myWindows".



## The Salamander C3 principle: The route to optimum window configuration

You can use our specially developed procedure to find the window that meets your standards. These three dimensions essentially determine whether your choice of window matches the building and external influences:

**Climate**



**Climate conditions and local factors**

Temperature curve and difference, rainfall, hours of sunshine, snowfall, wind loads, burglary rates, air pollution, noise pollution, meters above sea level.

**Case**



**Building properties**

Year in which the building was constructed, living space, storeys, window frame material, glazing, alignment of the building as per GPS coordinates, number of windows per façade, window types, number of cross bars, window dimensions, analysis of light situation: Comparison of actual and desired light situation.

**Client**



**Customer demands**

Strategies to optimize light and energy input, historical authenticity, regional style, individual selection of the design and materiality, ecological factors such as insulation and recycling as well as costs.

## Climate

With a heat transfer coefficient of up to 1.0 W/(m<sup>2</sup>K) box offers very good insulation values and is ideally suited for places where winters are cold.

Its outstanding sound proof values make box the perfect system for areas with high noise emissions.

## Case

### Architectural style/window type

The flush, slim design gives the profile a modern look.

Its cubic shape and the various glazing options make box the ideal complement to a modern, minimalist architectural style.

### Structural analysis

When using the standard version of box, floor-to-ceiling windows and sizes up to 2.60 m can be installed.

### Insulation

Owing to optimized insulation values, box significantly improves the energy balance on the north side of a building. On the building's south side, the structural design facilitates large floor-to-ceiling elements and thus optimizes the input of light and energy.

## Client

### Strategies

Box protects well against noise pollution. That applies particularly to rooms that are facing the street or are used as bedrooms.

### Sound proof

The glass thickness of this design measures up to 56 mm, and ensures a maximum sound insulation of up to 48 dB.

### Burglar resistant

With box burglary protection of up to RC3 can be ensured via standard measures.

### Surfaces

Salamander White, alternatively the basic body is also available in anthracite, cream, brown, and caramel, over 40 standard film decors.

# Optimized sound protection and maximum functionality without compromising in terms of design

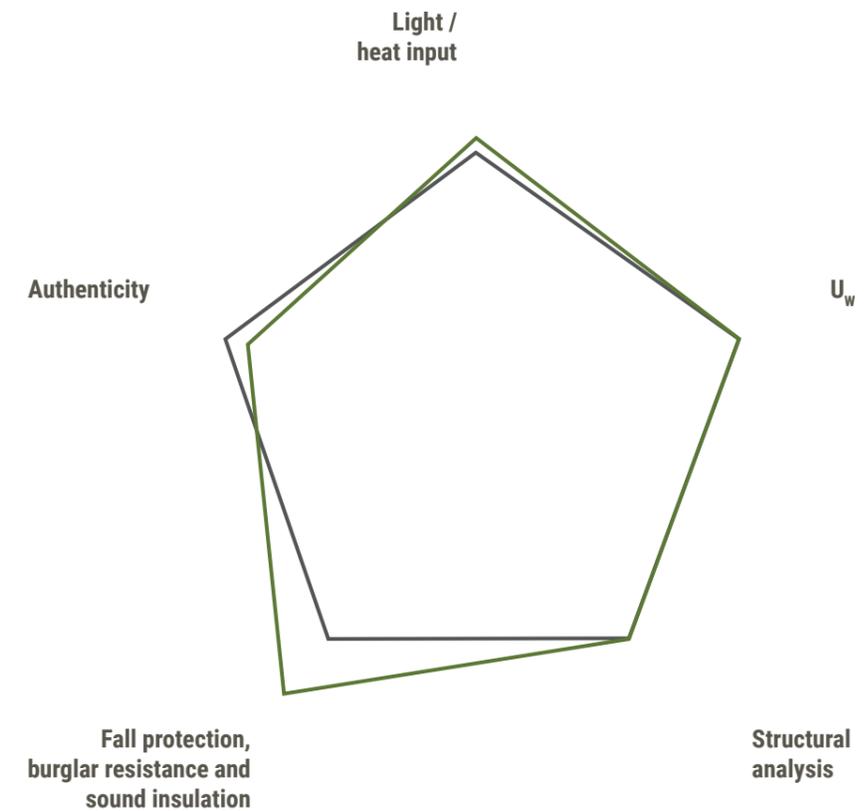


box

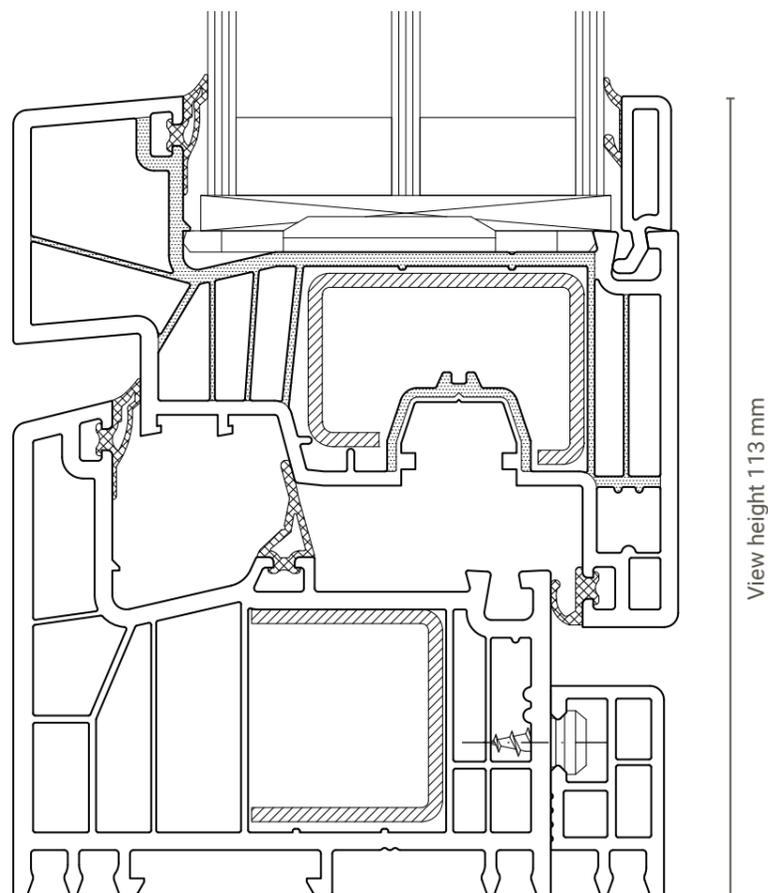
Compared to our all-rounder:



flex



## The most important values at a glance

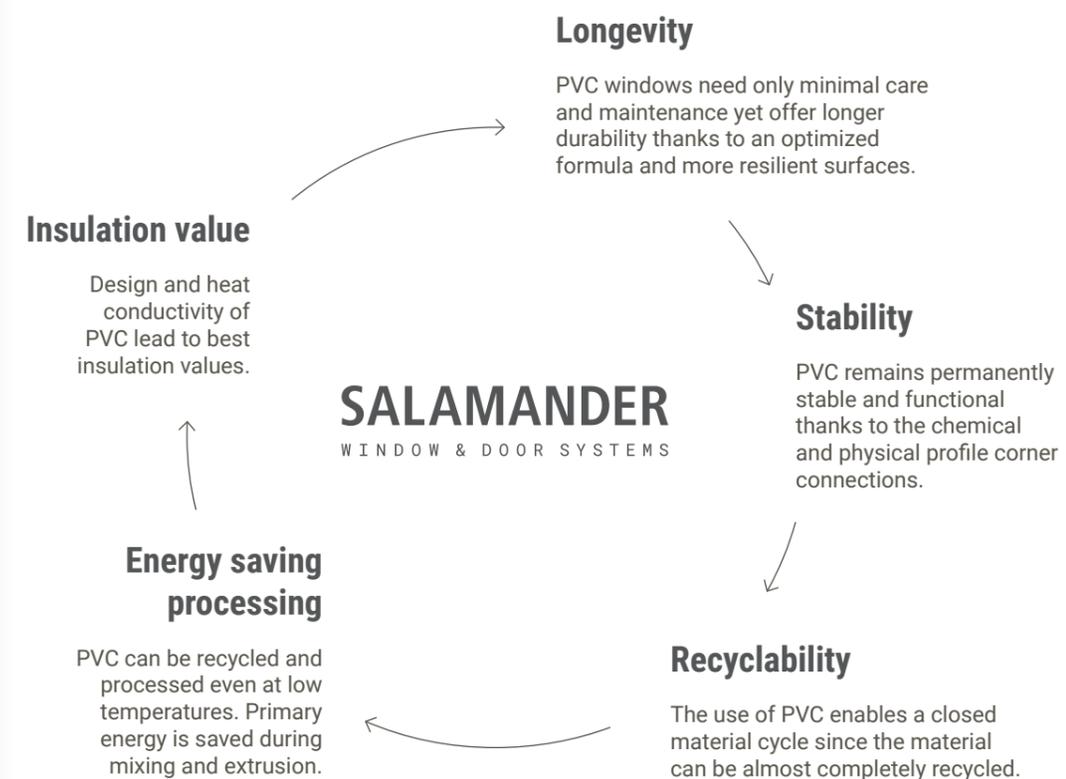


<b>Thermal insulation</b>	AD $U_w$ up to 0.76 W/(m <sup>2</sup> K) MD $U_w$ up to 0.73 W/(m <sup>2</sup> K)	AD $U_f$ up to 1.1 W/(m <sup>2</sup> K) MD $U_f$ up to 1.0 W/(m <sup>2</sup> K)
<b>Sound proof</b>	48 dB	
<b>Safety</b>	up to RC3	
<b>Construction depth</b>	76 mm	
<b>Sash view height</b>	43 mm	
<b>Frame view height</b>	70 mm	
<b>Maximum sizes</b>	Standard sash: Width up to max. 1,500 mm Height up to max. 2,600 mm	Side entrance door: Width up to max. 1,000 mm Height up to max. 2,200 mm
<b>Types of opening</b>	Side-hung window, bottom hung window, and tilt and turn window, side entrance or parallel slide & tilt door	

## The ideal, most sustainable window material – PVC

We specialize in the production of window profiles using the sustainable and long-lasting material PVC and combine this with our innovative realMaterial surfaces. This enables us to create customized windows which not only suit the style of the building, but also bring it to life – on the outside and inside.

Our production facilities are powered by an ever increasing percentage of green electricity from renewable sources and our own water power plant.



# SALAMANDER

WINDOW & DOOR SYSTEMS



## We have the perfect window to suit your needs –

thanks to our decades of experience in profile development and PVC extrusion. Long-lasting, customizable and sustainable from the word go: We are continuously developing our systems to offer you the perfect window for the future today.

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