

WERU

YOUR ULTIMATE GERMAN WINDOW





YOUR LIFE. YOUR LIFESTYLE. YOUR WINDOW.

If the eyes are windows to our soul, our windows are our eyes to the world. It therefore pays to look very carefully when choosing your personal window. We can help you do this with many years of experience, customised manufacturing and this window catalogue.

Discover window systems with a unique capability to adapt to your requirements. Select features and innovative window technologies that are precisely tailored to your individual living requirements and experience a competent service that also takes your living situation into account.

We aim to provide outstanding quality and top-rate advice, and for you this means long-lasting pleasure from windows that are manufactured individually to meet your expectations. And if you would like to experience the benefits of this leading window brand directly, you can drop in at one of our 750 Weru specialists.

WERU. WINDOWS FOR LIFE.

WERU THAT'S THE WINDOW FOR ME

AFINO-art

My bespoke window design



AFINO-top

My window my design



AFINO-tec

My cleverly combined window



PALAZZO

The harmonious window in every respect

CASTELLO

The all-in-one option

SMARTLINE

The simply ingenious solution

The systematic route to the window of your choice

Some window purchasers may be looking for a reliable all-rounder, and others may be looking for more flexibility or a special round design. Others may want to include coloured accents or may value innovative technology. And then there are those who are looking for an exceptionally flat window that satisfies the most exacting architectural design requirements. But there is one thing they all have in common: they will all find the window they are looking for thanks to the diversity of Weru window systems.

Bespoke architecture window

- Blends framelessly with the facade
- Slender frame guarantees that plenty of natural light is admitted
- Facilitates architectural design solutions



Bespoke Alumix window

- Unique colour effects possible
- Even more weather resistant due to intelligent combination of aluminium and PVCu
- High-quality aluminium appearance



Bespoke high-tech window

- Exceptionally large glazed areas are possible thanks to high-tech material
- State-of-the-art GFP technology guarantees outstanding stability and lasting functionality
- Already satisfies the requirements of the German Energy Saving Ordinance which comes into force in 2015



Stylish round design window

- Facilitates systematic comprehensive round design
- Lends your facade a distinctive appearance



Versatile all-round window

- Outstanding quality with tried-and-tested technology
- Large range of products satisfies each individual requirement
- Reliable classic for renovation and new build projects



Reliable quality window

- For price-aware discerning buyers
- Reliable in everyday use
- Sound functionality





BESPOKE PREMIUM WINDOWS

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A modern interior scene featuring a staircase on the left, a large window on the right, and a decorative light fixture. The text is overlaid on the scene.

BESPOKE
PREMIUM
WINDOWS



AFINO – IT'S ALL A QUESTION OF ADJUSTMENT



Everybody should get the window that suits them. Nothing more and nothing less. Though this may at first appear to be stating the obvious, on closer analysis this is in fact a small revolution in the window sector. While others have been striving for one perfect window, we have made it our goal to achieve a range of perfect windows which is as diverse as possible. The AFINO windows, which come in three different basic forms that allow you to pursue your own entirely individual objectives, are a result of this approach. Most notable however, is the large number of technical innovations that feature in the AFINO Window that you can combine in any number of ways according to your own individual requirements.



AFINO-tec:
the bespoke high-tech window (for more information see p. 14)



AFINO-top:
the Bespoke Alumix design window (for more information see p. 18)



AFINO-art:
the bespoke architectural window (for more information see p. 22)

AFINO package concept:
All AFINO windows can be equipped with individual packages in order precisely meet your requirements in relation to security, energy efficiency and comfort. (for more information on the Protect, Energy and Comfort packages, see p. 26 onwards.)

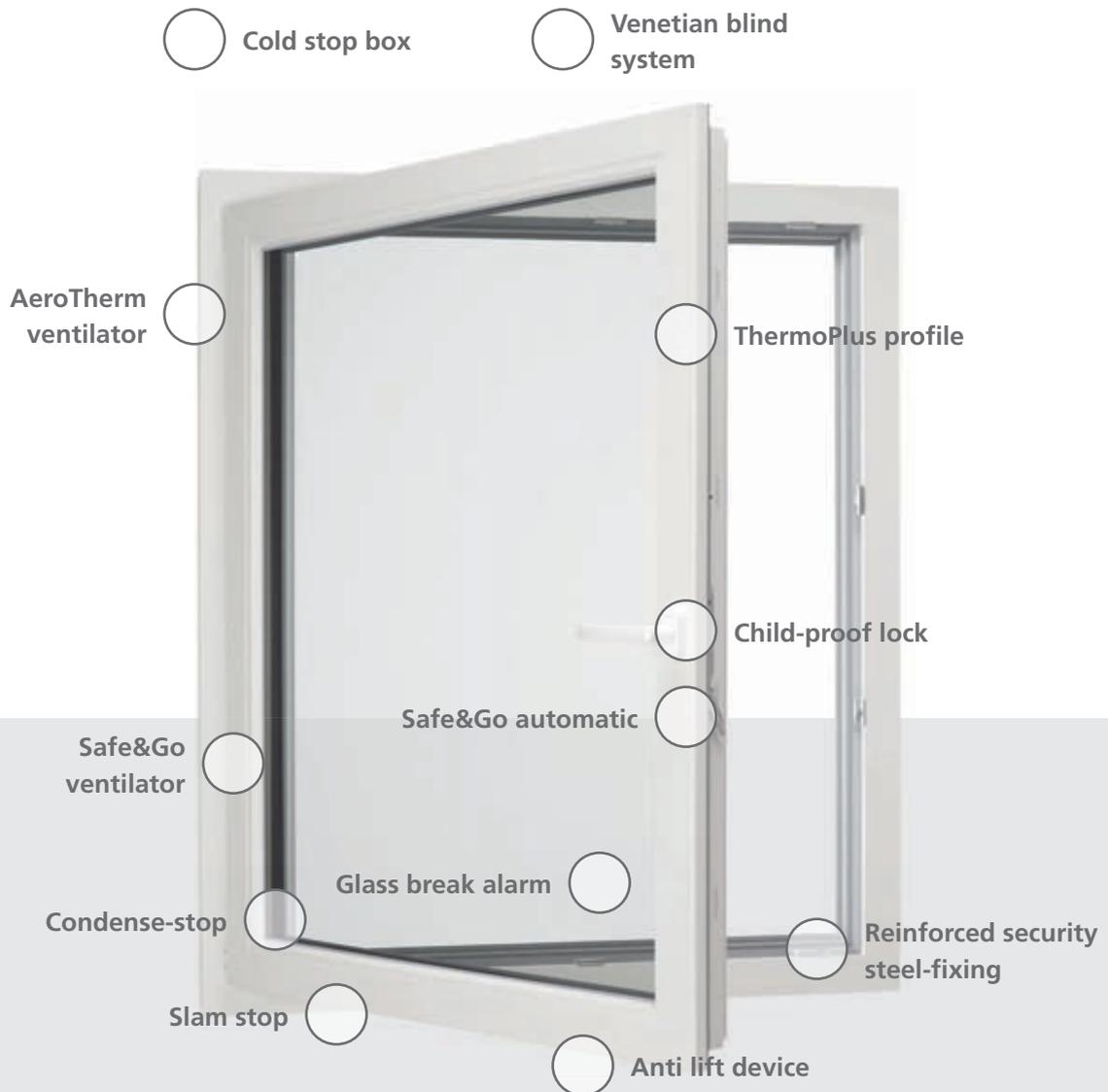
The AFINO system

It's good to be prepared for everything



AFINO

Is there anything that beats unique technological innovation? Yes! Unique technological innovation that you can freely configure according to your own individual requirements. As the basis, we offer an innovative window construction which, thanks to our many years of experience in the development, production and assembly of quality windows, combines the best solutions for PVCu window requirements. The result: a perfect interplay of sash and frame, profile and glazing, installation depth and insulation properties and of your requirements and our innovations.



This speaks in favour of AFINO quality

- ...to ensure outstanding and lasting dimensional stability for years
- Easy to clean rebate gasket or insulation-optimised centre gasket – the choice is yours
- Maximum window sizes thanks to GFP high-tech material and steel reinforcement

PREMIUM WINDOWS



Weru, with its sashes made of GFP high-tech material, can achieve PVCu window sizes that none of its competitors can match. The unique material mix of PVC and steel reinforcement in the frame and GFP high-tech material in the sash gives your window lasting dimensional stability. And, it also gives you excellent everlasting window views.

AFINO windows: highlights in the series

All technical innovations at a glance



AFINO

Irrespective of whether you require special security hardware, innovative surveillance elements or effective detailing which further improves the insulation properties, or innovative ventilation systems or special system enhancements that turn your window into a comprehensive solution with blackout capability. AFINO windows give you the flexibility and choice. We have innovations that satisfy every requirement.



Anti lift device

- Enhances burglary deterrence due to special mushroom cam and hammer head locks that work in opposing directions to stop the window casement being pushed out of the locking mechanism
- Only available from Weru



Reinforced security steel-fixing

- Locks bolted into special steel reinforcement elements maximise the window's resistance to being levered up
- Ensures additional loading capability and stability of frame and window as load-bearing components are generally bolted into the steel



Child-proof lock (optional)

- Protects against unwanted opening at the hands of children
- The special tilt-before-turn mechanism ensures that children can only tilt the window and not open it
- It can only be opened with a key
- Optional special equipment



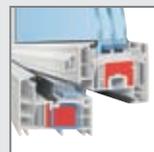
Slam stop

- The sash is fixed to prevent it from slamming shut during intermittent ventilation
- Variably limits the ventilation opening of the window



Glass break alarm

- Issues an alarm by emitting a loud acoustic signal when the pane is broken
- Startles before break-in attempts
- Prevents false alarm due to dual sensor mechanism (vibration and frequency)



ThermoPlus profile

- Optimises the thermal efficiency of the profile system due to ingenious chamber geometry in combination with thermal insulation foam
- Improves energy efficiency due to all-round foam filling, also in corner area of profile
- Ensures feeling of well-being due to even glass and surface temperature



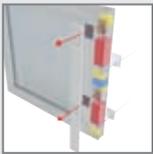
Safe&Go ventilator

- Allows the room to be ventilated with the windows locked using special hardware which parks the window sash parallel to the frame with a ventilation gap of 6 mm
- All-round ventilation gap guarantees continuous basic ventilation without draught effects
- Special hardware ensures enhanced burglary deterrence, also in the ventilation position up to security class WK 2**



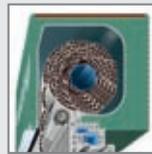
Safe&Go automatic*

- Automatic room ventilation due to motorised parallel parking hardware that moves the window into the ventilation position
- Sensor or time-controlled ventilation programs ensure sufficient ventilation, also when nobody is at home



AeroTherm ventilator*

- Ensures exchange of air with practically no loss of heat by preheating the incoming air to 17°C at an outdoor temperature of -10°C and a room temperature of 20°C (= 90 % efficiency)
- The integrated pollen and active carbon filter removes pollutants from the air



Cold stop box

- External inspection aperture reduces heat loss and cold bridging
- Box is closed on the room side which prevents the effects of draughts



Condense-stop

- Reduces condensation formation on the pane of glass above the glazing bead due to highly-insulating PVCu glazing spacers
- Warm edge ensures pleasant living climate due to even surface temperature



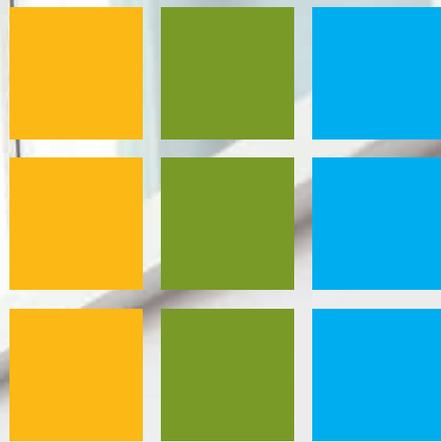
Venetian blind system

- Control natural daylight according to your individual requirements
- External venetian blinds prevents rooms with extensive fenestration becoming overheated
- As the venetian blind is mounted directly on the window it becomes virtually invisible in the facade
- Venetian blind boxes and windows are harmonised to fit perfectly with one another

* available from September 2012. ** Also available in security class RC 2, acc. to EN 1627-1630

AFINO-tec





AFINO

MY CLEVERLY COMBINED WINDOW

Would you still be able to remember the name of the window you chose today in five years time? That's anyone's guess. But what we do know for sure if you opt for AFINO-tec is that in five years time you will not be forced to think about replacing your windows. The same will in fact apply in 10 or 15 years time. So why is that the case? When you opt for AFINO-tec, you acquire a window that bears your interests in mind and even has foresight. This is because its innovative technology today will above all bring dividends in the long run. And, thanks to the flexible configuration and combination options for AFINO packages, you can bring your AFINO-tec even more closely in line with your current and future requirements.

AFINO-tec

The bespoke high-tech window



AFINO

We're not interested in gimmicks – we'll leave that to the others. We never use state-of-the-art technology just for the sake of it, in contrast we pursue the clear objective that every innovation should provide you with distinct added value. This is in fact what the AFINO-tec basic window already does. With general steel reinforcement in the frame, the GFP high-tech material and load-bearing components bolted into the steel, it surpasses other windows by means of its enduring dimensional stability and random resistance force. For you, this means high security and maximum conservation of value. Add to this the consistently high operating convenience and excellent insulation values to give you an exceptional living experience.

Technical features of AFINO-tec

Profile system	6-chamber-profile
	Installation depth: 86 mm
	2 or 3 gaskets
	Frame: PVC profile with general steel stiffening
	Sash: GFP high-tech material with additional steel stiffening with oversizes
Thermal insulation	Thermal transmission coefficient of window up to $U_w = 0.68 \text{ W/(m}^2\text{K)}$
	Thermal transfer coefficient of glazing up to $U_g = 0.4 \text{ W/(m}^2\text{K)}$
Sound insulation	Sound insulation value of window up to $R_w = 47 \text{ dB}$
Gaskets	Inserted EPDM gaskets (exceptionally weather resistant and highly resilient)
Security	130 kg hinges are standard feature
	Standard mushroom cam locks
	Can be upgraded to security class RC 3 according to DIN EN 1627–1630
Hardware fixing	All security-relevant and load-bearing components are screwed into steel
Maximum sash sizes	Windows 1600 mm x 1800 mm
	Balcony doors 1300 mm x 2600 mm



AFINO-tec MD (centre sealing system with three gaskets)



AFINO-tec AD (rebate sealing system with two gaskets)

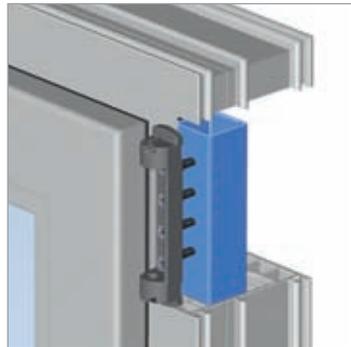
AFINO-tec

- Exceptionally large glazed areas are possible thanks to high-tech material
- State-of-the-art GFP technology guarantees outstanding stability and lasting functionality
- Already satisfies the requirements of the German Energy Saving Ordinance which comes into force in 2015



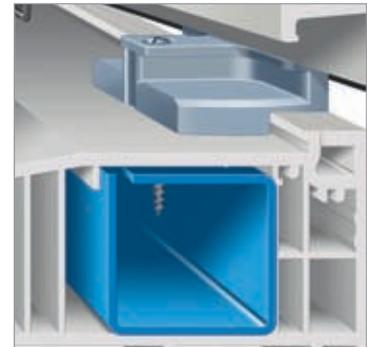
Outstanding energy efficiency

The profile parameters such as installation depth, number of chambers and chamber size are perfectly harmonised by our engineers to ensure the profile has the best thermal insulation characteristics. With special Weru insulating glass the windows can achieve heat insulation values up to $U_w = 0.68 \text{ W/(m}^2\text{K)}$. This reduces your energy consumption and heating costs which means you feel comfortable in all respects.



High functional reliability

With AFINO-tec, load-bearing hardware components such as the hinges are screwed into the steel at several points. This ensures enduring functionality and a long service life of the window, also when using extremely heavy triple glazing, and also ensures smooth operation.



More stability and burglary protection

The all-round steel reinforcement in the frame and the GFP high-tech material in the sash guarantee outstanding stability and torsional rigidity. The mushroom cam locks which are standard features and are screwed into the steel also make it more difficult to lever the window open.



More light and visibility

Room high window elements that allow a high degree of light and passive solar gain are becoming increasingly in vogue. Our fibre-reinforced sash profiles reflect this trend. Combined with steel stiffeners, they ensure outstanding stability and make exceptionally large windows possible.



Permanently tight

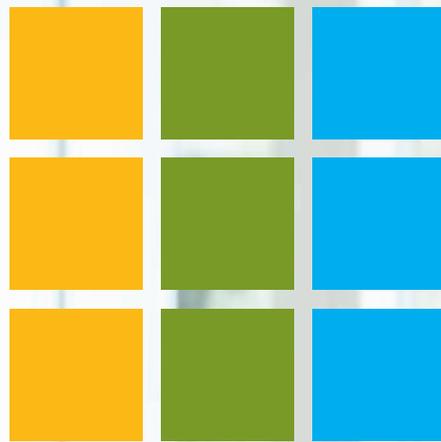
Our high-quality EPDM gaskets deliver what they promise, even after many years. The exceptionally weather-resistant material is highly resilient which guarantees long-term tightness. This avoids draughts and heat losses.



Ease of cleaning

Owing to their smooth, highly-compressed surface, the profiles are especially dirt-repellent and easy to clean and attract less dust due to a lower static charge. The windows are easy to clean as there are no corners and recesses in the frame.

AFINO- top



AFINO

MY WINDOW MY DESIGN

For one person, colour is a means of personal expression, for the other a beautiful colour shade is an extremely personal sensual experience and for a third, a specific colour may trigger specific memories. Irrespective of what colour means for you and which colour you like the most, with AFINO-top you can also indulge your individual taste when when it comes to choosing your windows.

AFINO-top

The bespoke Alumix window

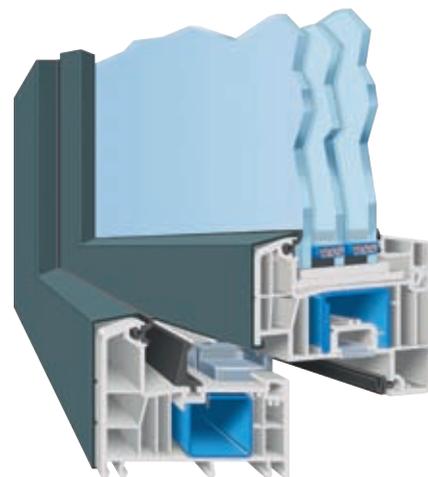


AFINO

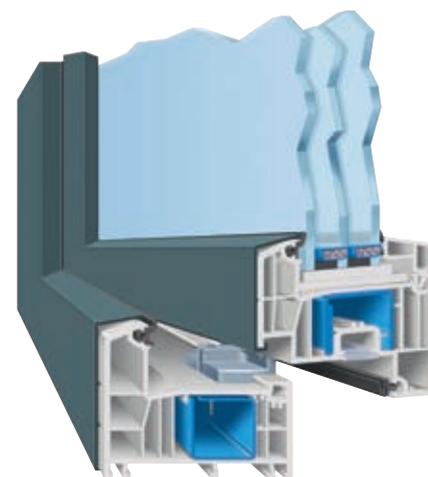
AFINO-top satisfies two requirements at the same time. You not only have all the benefits of a PVCu window in the new AFINO family which includes the AFINO package options, it also comes with the visual and technical benefits of the aluminium surface with further colour options. And apart from this, the high quality aluminium facing provides additional protection from the weather.

Technical features of AFINO-top

Profile system	6-chamber profile with aluminium facing
	Installation depth: 89 mm
	2 or 3 gaskets
	Frame: PVC profile with general steel stiffening
	Sash: PVC profile with general steel stiffening
	Aluminium facing, butted
	Characteristic modern aluminium appearance
Thermal insulation	Thermal transmission coefficient of window up to $U_w = 0.68 \text{ W/(m}^2\text{K)}$
	Thermal transfer coefficient of glazing up to $U_g = 0.4 \text{ W/(m}^2\text{K)}$
Sound insulation	Sound insulation value of window up to $R_w = 47 \text{ dB}$
Gaskets	Inserted EPDM gaskets (exceptionally weather resistant and highly resilient)
Security	130 kg hinges are standard feature
	Standard mushroom cam locks
	Can be upgraded to security class RC 2 according to DIN EN 1627-1630
Hardware fixing	All security-relevant and load-bearing components are screwed into steel
Maximum sash sizes	Windows 1500 mm x 1400 mm
	Balcony doors 1200 mm x 2500 mm



AFINO-top MD (centre sealing system with three gaskets)



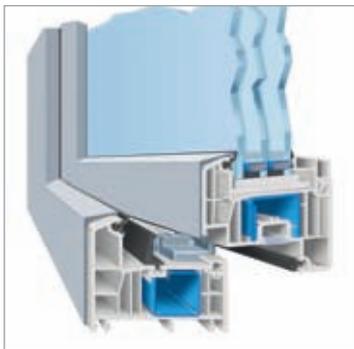
AFINO-top AD (rebate sealing system with two gaskets)



Modern design with butt-jointed aluminium cladding

AFINO-top

- Unique colour effects possible
- Even more weather resistant due to intelligent combination of aluminium and PVCu
- High-quality aluminium appearance



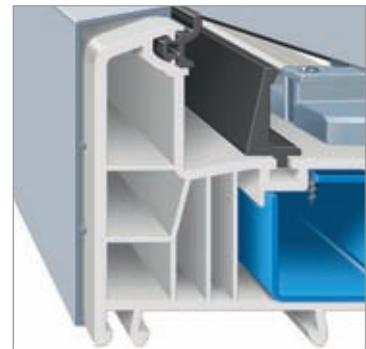
Alu meets PVCu – intelligent combination of materials

AFINO-top combines the benefits of two different high-quality materials in one window. The highly thermal insulating PVCu profile is combined with the benefits of the high-quality, easy cleanability and sophisticated aesthetics of an aluminium facing.



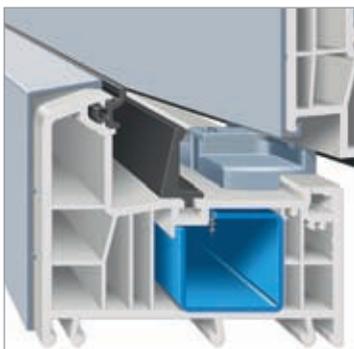
Unlimited colours

You may wish to incorporate colourful accents, or maybe you would prefer to adopt a classic look as a reflection of your lifestyle. The aluminium facing gives you the choice – in addition to 17 standard and 6 wood structure colours, you have roughly 200 RAL classic colours and more than 900 NCS colours at your disposal. For more design options refer to page 71.



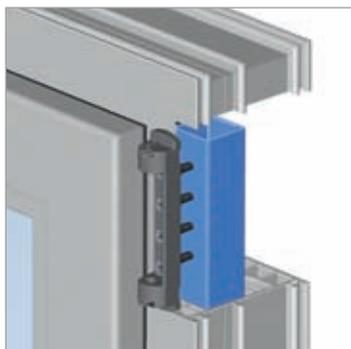
Low heat transfer

The special aluminium facing construction guarantees stress-free connection. As there is very little contact between the surfaces of the aluminium facing and the PVCu profile, this avoids direct conduction of heat which prevents the surface of the PVCu profile from cooling.



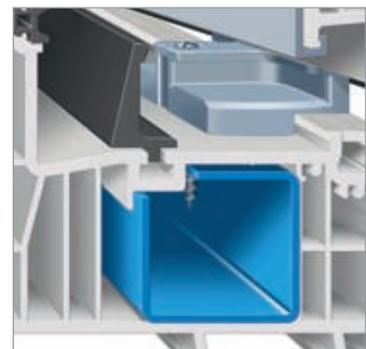
Outstanding energy efficiency

Parameters such as installation depth and number and size of chambers ensure outstanding thermal insulation characteristics of the profile. With special Weru insulating glass the windows can achieve heat insulation values up to $U_w = 0.68 \text{ W/(m}^2\text{K)}$. This reduces your energy consumption and heating costs.



High functional reliability

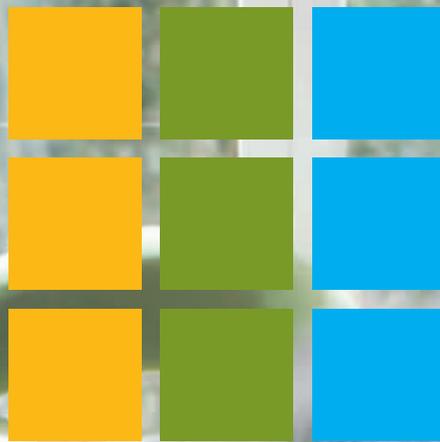
With AFINO-top, load-bearing hardware components such as the hinges are screwed into the steel several times. This ensures enduring functionality and a long service life of your window, even when using extremely heavy triple glazing systems, and also ensures smooth operation.



More stability and burglary protection

The all-round steel reinforcement in the frame guarantees outstanding stability and torsional rigidity. The mushroom cam locks that are supplied as standard and are screwed into the steel also make it more difficult to lever the window open.

AFINO-art



AFINO

MY BESPOKE WINDOW DESIGN

Did you know that houses can have a slender outline too? With the AFINO-art you can quite rightly opt for more elegance on the outside and more brightness on the inside. The frameless adhesive sash construction makes your window appear larger and most importantly ensures a pleasant daylight atmosphere in the interior that also imparts a sense of lightness to your rooms.

AFINO-art

The bespoke architectural window



AFINO

Even if at first glance the AFINO-art is above all alluring in terms of its visual appearance, you can also rest assured that the quality of the interior also lives up to this appearance. Modern building and refurbishment ultimately also requires careful selection of materials with the aim of achieving maximum energy efficiency. What's more, AFINO-art is also uncompromising when it comes to security.

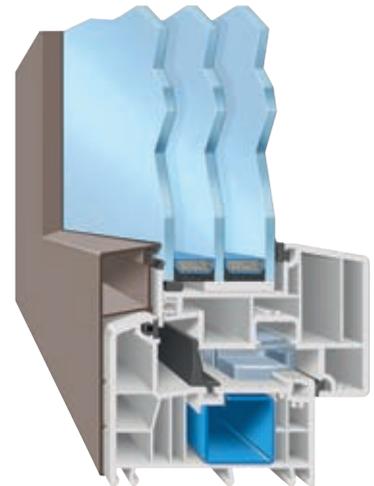
We would be only too pleased reveal the secret behind the architectural effect of AFINO-art and how you could in fact get even more out of the AFINO package options for yourself.

Technical features of AFINO-art*

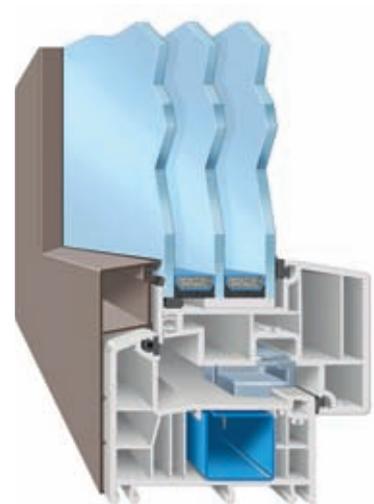
Profile system	6-chamber-profile
	Installation depth: 89 mm
	2 or 3 gaskets
	Frame: PVC profile with general steel stiffening and aluminium facing
	Sash: GFP high-tech material
	Pane of insulation glass is generally glued into the sash
	Aluminium facing, butted
Thermal insulation	Thermal transmission coefficient of window up to $U_w = 0.84 \text{ W/(m}^2\text{K)}$
	Thermal transfer coefficient of glazing up to $U_g = 0.6 \text{ W/(m}^2\text{K)}$
Sound insulation	Sound insulation value of window up to $R_w = 39 \text{ dB}$
Gaskets	Inserted EPDM gaskets (exceptionally weather resistant and highly resilient)
Security	130 kg hinges are standard feature
	Standard mushroom cam locks
	Can be upgraded to security class WK 1** according to DIN EN 1627–1630
Hardware fixing	All security-relevant and load-bearing components are screwed into steel
Maximum sash sizes	Windows 1300 mm x 1700 mm
	Balcony doors 1000 mm x 2300 mm

* available from September 2012.

** Also available in security class RC 1, acc. to EN 1627-1630



AFINO-art MD (centre sealing system with three gaskets)



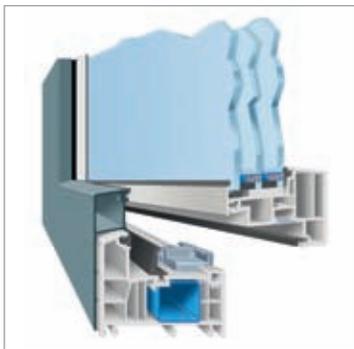
AFINO-art AD (rebate sealing system with two gaskets)



Modern design with butt-jointed aluminium cladding

AFINO-art

- Blends framelessly with the facade
- Slender frame guarantees that plenty of natural light is admitted
- Facilitates architectural design solutions



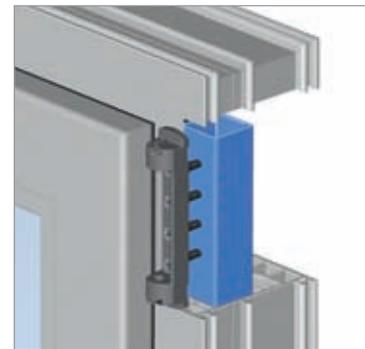
Architectural design solution

The sophisticated design window for all those who like special architectural accents – the sash and frame blend into one. In elevation, the frame is slender and therefore allows in plenty of natural light and provides a modern clear line. The apparently frameless window integrates perfectly into the facade design.



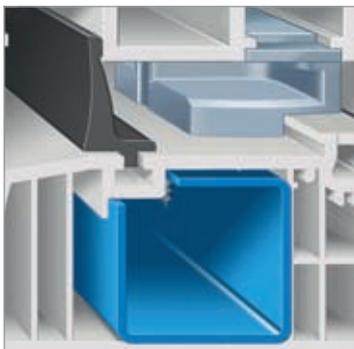
Unlimited colours

The colour of your windows says a great deal about your personality. You may wish to incorporate colourful accents, or maybe you would prefer to adopt a classic look as a reflection of your lifestyle. The aluminium facing gives you this choice – in addition to 17 standard colours, you have around 200 RAL classic colours and more than 900 NCS colours at your disposal.



High functional reliability

With AFINO-art, load-bearing hardware components such as the hinges are screwed into the steel several times. This ensures enduring functionality and a long service life of your window, even when using extremely heavy triple glazing systems, and also ensures smooth operation.



More stability and burglary protection

The all-round steel reinforcement in the frame and the GFP high-tech material in the sash guarantee outstanding stability and torsional rigidity. The mushroom cam locks which are standard features and are screwed into the steel also make it more difficult to lever the window open.



Permanently tight

Our high-quality EPDM gaskets deliver what they promise, even after many years. The exceptionally weather-resistant material is highly resilient which guarantees long-term tightness. This avoids draughts and heat losses.



Ease of cleaning

Owing to their smooth, highly-compressed surface, the profiles are especially dirt-repellent and easy to clean and attract less dust due to the lower static charge. The windows are easy to clean as there are no corners and recesses in the frame.

A modern dining room with a glass table, white chairs, and two large spherical pendant lights. The room features large windows overlooking a green landscape. The text 'AFINO PACKAGES' is prominently displayed in the center, with 'BESPOKE PREMIUM QUALITY' below it.

AFINO

PACKAGES

BESPOKE PREMIUM QUALITY

As individual as you are: the AFINO package combinations



Which window type suits me? What does the ideal bathroom window look like? What protection do my windows on the ground floor require? How can I actively protect the environment with windows? Individual questions require individual answers and solutions. This is why flexibly bespoke AFINO packages are available. You can decide on the degree of security, energy efficiency and operating convenience of your individual AFINO window by choosing from the AFINO range of packages consisting of Protect, Energy and Comfort.



My guardian window

With lockable handle, security hardware for WK 1, anti lift device and special security locking elements of the Protect+ package and KlimaTherm glazing including Warm Edge technology which comes with the Energy+ package you can rest assured that environmental protection and security will be combined in one window.



My first-rate climate feel-good economic security window

Special properties require special equipment. You are guaranteed to get the the most out of your window with the comprehensive Protect+++ , Energy+++ and Comfort+++ package range. in terms of safety, thermal insulation and comfort.



My "everything is ok" window

More security, more ventilation comfort with the slam stop and the Weru-Air Comfort ventilator as well as an even better U_g value of $0.6 \text{ W/(m}^2\text{K)}$ which means effective savings in heating costs. All this is the result of combining the Protect+, Energy++ and Comfort+ packages.



❖ It's all about your security

Did you know that the main point of attack during attempted burglaries is not in fact the glass, in more than 70 % of cases it is the window hardware via which the window is regularly opened? Did you also know that most burglaries (approx. 80 %) are perpetrated by so-called opportunistic thieves who quickly move on somewhere else if they encounter the slightest degree of resistance?

In light of this, all Weru windows feature high-quality hardware and tough frame construction. And those who are looking to systematically increase this resistance, in order for example to protect specific windows on the ground floor or near a balcony, can opt for the Protect packages which are tailored to their individual needs.



Methods used to open windows in apartment break-ins

- 73.7 % Levering open frame
- 13.5 % Window tilted
- 4.8 % Glass broken and window unlocked
- 1.6 % Window open/unlocked
- 0.8 % Glass broken
- 0.0 % Glass cut and window unlocked
- 5.6 % Other

Study conducted in Cologne in 2006, Police Headquarters, Cologne

Protect My reassuringly safe window

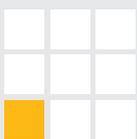


When a burglary happens, this not only results in material damage, the consequences can be more far reaching and psychosomatic problems such as insomnia and anxiety states may occur. But things don't have to be this way. The three Protect package levels give you peace of mind and increase the security of your window comprehensively and systematically. This means your window has greater resistance, a higher degree of protection and is a more intimidating prospect for would-be intruders and also offers more security, peace and calmness for your family.

- **Resistance:** Protect increases the ability of your window to fend off burglary attempts
- **Protection:** Protect prevents the handle from being twisted open as a result of manipulation from the outside
- **Deterrence:** Protect has a preventative effect by triggering an alarm in the event of a burglary



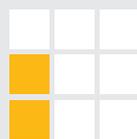
Protect +



Protects against forcible opening by levering it up; prevents the handle from being twisted open

- Lockable handle
- Security hardware for WK 1*
- Anti lift device, horizontal

Protect ++



Increases once again the levering-up security, with security reinforced steel fittings

- Lockable handle
- Security hardware for WK 1*
- Anti lift device, horizontal
- Reinforced security steel-fixing

Protect +++



Protects against break-ins using tools, emits alarm if the glass breaks

- Lockable handle
- Security hardware for WK 2*
- Anti lift device, horizontal
- Anti lift device, vertical
- Reinforced security steel-fixing
- Glass break alarm

* Also available in security class RC1/RC 2, acc. to EN 1627-1630

The answer to all your security questions: the three Protect levels and their components



Our three Protect levels contain the most important security and protection mechanisms a window can have, in combination with one another. New product innovations, such as hardware with the integrated anti lift device can therefore be found side by side with tried-and-tested security solutions such as the glass breakage alarm. And, thanks to the ingenious combination packages, you will also stay safely within your budget.



OVERVIEW OF THE INDIVIDUAL PROTECT COMPONENTS:



Included in Protect +, ++ and +++

Lockable handle

- Prevents the handle from being twisted open through manipulation from the outside
- Prevents the window from being easily opened, also when the pane is broken



Child-proof lock (optional)

- Protects against unwanted opening at the hands of children
- The special tilt-before-turn mechanism ensures that children can only tilt the window and not open it
- It can only be opened with a key
- Optional special equipment



Included in Protect + and ++

Security hardware for WK 1*

- Mushroom cam locks are mounted at the corners of the window to make it more difficult to lever open the window
- Recommended for town and estate houses



Included in Protect +++

Security hardware for WK 2*

- Additional mushroom cam locks are mounted around the window to increase protection against attempted forcible entry
- Recommended for detached single family houses

* Also available in security class RC1/RC2, acc. to EN 1627-1630

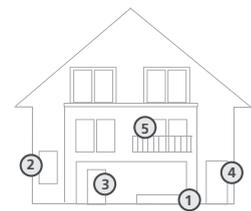
WHAT DO THE RC/WK CLASSES ACTUALLY MEAN?

The standardised resistance classes WK 1–3 as per DIN EN 1627–30 (new resistance classes RC 1–3 as per EN 1627–30) describe the minimum time a window must be able to withstand an attack using the set of tools defined in each case. Recommendations for the corresponding resistance class of a window that may also be relevant to insurance matters are normally based on the location of the residential property. These start with security class WK 1 for town and estate houses and continue to WK 2 for detached single-family houses through to WK 3 for secluded houses, villas or exclusive property.

IN WHAT SITUATIONS SHOULD I TAKE NO CHANCES AND HOW CAN I DO THIS?

Windows on the ground floor and patio doors are the most vulnerable. 70 % of burglaries are attributable to these two areas. Weru has responded early to this development with a comprehensive range of tried-and-tested effective components for patio doors and ground floor windows that are designed to prevent burglaries. However, burglary-deterrent windows and doors can only work effectively if they are installed properly. Your Weru specialist can take care of this. Our in-house experts will be pleased to advise you on which burglary protection features are best for your house or apartment.

Preferred ingress points in houses



- ① 8.1 % Basement windows/light shafts/doors
- ② 28.7 % Ground floor windows
- ③ 41.0 % Patio/balcony doors on ground floor
- ④ 14.6 % Front doors/secondary entrance doors
- ⑤ 7.6 % Balcony doors/windows on first floor

Source: Analysis by Bavarian State Office of Criminal Investigation



Included in Protect +, ++ and +++

Anti lift device

- Enhances burglary deterrence due to special mushroom cam and hammer head locks that work in opposing directions to stop the window casement being pushed out of the locking mechanism
- Only available from Weru



Included in Protect ++ and +++

Reinforced security steel-fixing

- Locks bolted into special steel reinforcement elements maximise the window's resistance to being levered up
- Ensures additional loading capability and stability of frame and window as load-bearing components are generally bolted into the steel



Included in Protect +++

Glass breakage alarm

- Issues an alarm by emitting a loud acoustic signal when the pane is broken
- Startles before break-in attempts
- Dual sensor mechanism (vibration and frequency) prevents false alarm

> Additional equipment options

such as the Weru secur handle or special security glass and hardware which further increases the security of your window, if required, are listed from page 82 onwards.



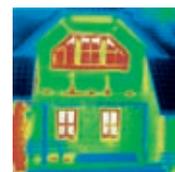
••• More sought after than ever: your energy efficiency

If you want to save energy you don't have to freeze. Instead, you need to make sure that the heat stays where it belongs: within your own four walls. One of the most important means of achieving this is by using the right windows. And, the rate of progression in the area of thermal efficiency and energy saving technology in recent years has been more rapid for windows than any other component of the building envelope, not least thanks to innovative Weru technology.

All windows in the new AFINO family have higher than average thermal insulation values. But this wasn't enough for us. When you opt for an Energy package tailored to your requirements you therefore have the opportunity to increase the thermal efficiency of your window further, reduce energy costs and preserve the environment.

Thermal images: red shows areas in which thermal losses occur. The more intense the red colour is, the higher the thermal loss at the individual components.

Before installation



Old PVCu windows

Following installation



New Weru windows

Energy My "save and get warm" window



Save energy and feel-good factor, this is the basic formula of the three Energy package levels. We work on the tiniest details to ensure you systematically use less energy and can effectively save on heating costs. This is because every percentage increase in thermal efficiency over the long service life of the premium window ultimately means hard cash savings for you.

- **Increased feel-good factor:**
Energy ensures an even surface temperature and therefore reduces cold emission
- **Improved energy efficiency:**
Energy already satisfies the requirements of the German Energy Saving Ordinance which is due to come into force on 2015
- **Lower heating costs:** Energy lets energy in from the outside and keeps the heat inside the house



Energy +



Increases energy efficiency compared to the basic glazing ExtraTherm by 36 %

Weru-KlimaTherm ($U_g = 0.7$)

Condense-stop

Energy ++



Increases the energy efficiency when compared to the ExtraTherm basic glazing by 45 % and reduces cold emission due to the Energy profile

Weru-PrimaTherm ($U_g = 0.6$)

Condense-stop

ThermoPlus profile

Energy +++



Increases energy efficiency compared to ExtraTherm basic glazing by 55 % and reduces the cold emission due to the Energy profile

Weru-SupraTherm ($U_g = 0.5$)

Condense-stop

ThermoPlus profile

Energy-efficient solutions for you: the three Energy levels and their integral components



AFINO

We have effectively bundled the most efficient active thermal insulation measures in our three Energy packages. From thermal glazing with ultra thin coating including triple-glazed window engineering to heat-insulating spacers through to the innovative Energy profile with foam-filled insulating chamber, whichever method you choose, you can increase the thermal efficiency of your window by up to 55 % compared to a window with basic glazing ($U_g = 1.1$).



OVERVIEW OF THE INDIVIDUAL ENERGY COMPONENTS:



Included in
Energy +

Weru-KlimaTherm (U_g value 0.7)

– Increases the energy efficiency of the glazing by 36 % compared to basic glazing by using triple thermal glazing with two coated panes and filled with the inert gas argon



Included in
Energy ++

Weru-PrimaTherm (U_g value 0.6)

– Increases the energy efficiency of the glazing by 45 % compared to basic glazing by using triple thermal glazing with two coated panes filled with the inert gas argon



Condense-stop

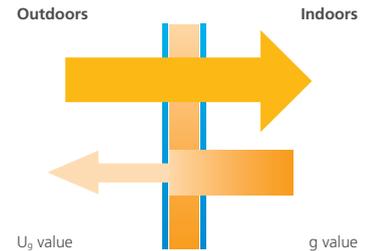
– Reduces condensation formation on the pane of glass above the glazing bead due to highly-insulating PVCu glazing spacers
– Warm edge ensures pleasant living climate due to even surface temperature

WHAT DOES THE U VALUE OF A WINDOW MEAN?

This value (previously known as the k-value) is also known as the thermal transmission coefficient and states the rate of heat flow through the window when the temperature difference between the inside and outside remains constant. The U value of the window is calculated from the thermal transmission coefficients of the frame and sash profile (U_f), the glazing (U_g) and the glazing edge compound used. The following applies as a basic rule: the lower the U value is, the more effective the thermal insulation properties of the window will be.

IS IT POSSIBLE TO RECOVER ENERGY USING THE CORRECT WINDOW TECHNOLOGY?

The insulating glass in the Energy packages helps you save on heating costs. The U_g value defines the loss of thermal energy to the outside and the g value defines how much energy reaches the interior via the sunlight. The higher the g value is, the higher the energy yield will be as a result of incoming sunlight. Weru windows have a low U_g value and a g value of up to 60 % and therefore create a pleasant living climate without cold zones. They also give you the sense that your money is not being sucked out of the window!



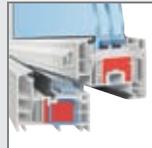
Weru thermal glazing allows plenty of solar energy in (higher g value), but only allows a small amount of thermal energy to escape (low U_g value).



Included in
Energy +++

Weru-SupraTherm (U_g value 0.5)

- Increases the energy efficiency of the glazing by 55 % compared to basic glazing by using triple thermal glazing with two coated panes filled with the inert gas argon



Included in
Energy +++

ThermoPlus profile

- Optimises the thermal efficiency of the profile system due to ingenious chamber geometry in combination with thermal insulation foam
- Reduces thermal bridging due to all-round foam filling, also in the corner area of the profile
- Ensures feeling of well-being due to even glass and surface temperature

> For more insulating glass systems see page 74.



❖ Here's how to create your feel-good atmosphere

Those who want a relaxed lifestyle need air to breathe. Literally, in fact. This is because for you to feel comfortable within your own four walls the air needs to be changed regularly. Exhaust air, odours and moisture must be removed and replaced by oxygen-rich fresh air.

And, it's not just you who benefits from regular ventilation. A healthy living climate is good for the house and apartment and helps prevent damage to the building due to excessive moisture and mould. For those who think that ventilation is all well and good but that it also comes at a price, namely higher energy consumption we recommend regulated ventilation. The Comfort packages which are tailored to your specific requirements are the easiest way to do this. These show that it is possible to reconcile what appear to be conflicting objectives: fresh air and energy efficiency.

Comfort My "totally relaxed" window

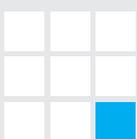


You have had a stressful day and would like to enjoy some time at home at last. Do you think about regulated ventilation in these kind of situations? Of course not. And you don't have to either. This is what the three Comfort package levels are for: to ensure the right living and feel-good climate. All you have to do is sit back and relax.

- **More quality of life:** Comfort freshens up the daily routine with a supply of oxygen-rich fresh air
- **No chance for moisture and pollutants:** ventilating with Comfort prevents mould and headaches
- **Energy-saving ventilation:** Comfort brings preheated fresh air into your rooms entirely of its own accord



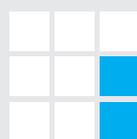
Comfort +



Ensures permanent ventilation, closes automatically in strong winds

Weru-Air Comfort
Slam stop

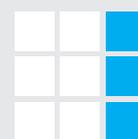
Comfort ++



Provides basic ventilation with the burglary deterring performance of a closed window

Safe&Go ventilator
Security hardware for WK 1*

Comfort +++



Ensures fresh pre-heated air which is low in pollutants

AeroTherm ventilator
Pollen filter
Active carbon filter

* Also available in security class RC 1, acc. to EN 1627-1630

Your enhanced living and feel-good climate: the three Comfort levels and their integral components



AFINO

A healthy living climate is no mystery. Our three Comfort levels offer different ways of achieving a comfortable atmosphere that suits your individual requirements – in a simple, fast and uncomplicated manner. Comfortable continuous ventilation, basic ventilation without draught effect or innovative AeroTherm ventilation system with integrated heat recovery, whatever the requirement the regulation of ventilation has never been easier.



OVERVIEW OF THE INDIVIDUAL COMFORT COMPONENTS:



Included in
Comfort +

Weru-Air Comfort

- Ensures permanent ventilation
- Closes automatically in strong winds (no draught effect) while providing the necessary basic ventilation
- Heats the incoming air in the frame rebate



Included in
Comfort +

Slam stop

- The sash is fixed to prevent it from slamming shut during intermittent ventilation
- Variably limits the ventilation opening of the window

WHY IS VENTILATION SO IMPORTANT?

Did you know that 15 pot plants transfer up to 3.6 litres of water to the air every day and that this amount increases by an additional 2.6 litres by taking four shower baths each lasting 15 minutes. Once the temperature-dependent maximum quantity of water vapour which can be absorbed by the air is reached and the temperature continues to fall, condensation forms which can under some circumstances lead to mould growth. The only way to deal with excessive moisture is systematic ventilation.

WHICH VENTILATION TECHNOLOGY SHOULD I USE?

Window and internal doors wide open. This type of draught effects a quick and complete exchange of air. With gap ventilation, e. g. via a tilted window, a moderate exchange of room air and external air occurs. This is only suitable for the warmer season – energy consumption increases in winter with the window continuously tilted open and the temperature of the room falls too far.



Included in Comfort ++

Safe&Go ventilator

- Allows the room to be ventilated with the windows locked using special hardware which parks the window sash parallel to the frame with a ventilation gap of 6 mm
- All-round ventilation gap guarantees continuous basic ventilation without draught effects
- Special hardware ensures enhanced burglary deterrence, also in the ventilation position, up to security class WK 1



Included in Comfort +++

AeroTherm ventilator**

- Ensures exchange of air with practically no loss of heat by preheating the incoming air to 17°C at an outdoor temperature of – 10°C and a room temperature of 20°C (= 90 % efficiency)
- The integrated pollen and active carbon filter removes pollutants from the air

> For ventilation aids and ventilators see page 76 onwards.

* Also available in security class RC 1, acc. to EN 1627-1630
 ** Available from September 2012.



ALL-ROUND WINDOWS

SOLUTIONS





RELIABILITY CAN BE THIS VERSATILE

Whether new build or renovation project: when it comes to choosing the right window, reliable quality is the only way. to ensure that the decision you make today will still be the right one tomorrow. When you opt for Weru you are building on reliable development know-how accumulated over more than 50 years and tried-and-tested window systems that we have continuously developed and the individual design flexibility that countless equipment options gives you.



Castello



Palazzo



SmartLine



CASTELLO

THE ALL-IN-ONE OPTION

Are you looking for high quality windows that won't let you down in the years to come, give you the security you need and are uncomplicated to use? If so, then Castello windows by Weru are the right choice for you. Whether you opt for a recessed or semi-recessed system, Castello can meet all your design expectations. This window system has all the key benefits rolled into one, and with an impressive price-performance ratio.

Castello

The versatile all-round window

Whether old building renovation or new build project, when you opt for Castello you can look forward to years of enjoyment from your new windows. The reliable inner workings, high degree of operating convenience and reliable hardware make sure of this. In order to satisfy all expectations and not least your own personal taste, countless form and colour variants are available for you to choose from and the extra optional features allow you to adapt Castello to your individual requirements. The optional concealed hardware, for example, has greater aesthetic appeal and ensures a clean line.

Technical features of Castello

Profile system	5-chamber profile Installation depth: 70 mm View: recessed and semi-recessed 2 gaskets Frame: PVC profile with general steel stiffening Sash: PVC profile with general steel stiffening
Thermal insulation	Thermal transmission coefficient of window up to $U_w = 0.76 \text{ W/(m}^2\text{K)}$ Thermal transfer coefficient of glazing up to $U_g = 0.4 \text{ W/(m}^2\text{K)}$
Sound insulation	Sound insulation value of window up to $R_w = 44 \text{ dB}$
Gaskets	Inserted EPDM gaskets (exceptionally weather resistant and highly resilient)
Security	100 kg hinges Standard mushroom cam locks Can be upgraded to security class WK 3 according to DIN EN 1627–1630
Hardware fixing	All security-relevant and load-bearing components are screwed into steel
Maximum sash sizes	Windows 1500 mm x 1400 mm Balcony doors 1200 mm x 2500 mm



Cutaway view of Castello system, recessed



Cutaway view of Castello system, semi-recessed

CASTELLO

- Outstanding quality with tried-and-tested technology
- Large range of products satisfies each individual requirement
- Reliable classic for renovation and new build projects



Long service life

With Castello, all hardware is screwed into the all-round steel reinforcement – not just the PVCu, for example. This guarantees problem-free functionality for decades.



Enhanced security

Security corner transmissions are a standard feature of the basic version and ensure greater burglary deterrence. By applying a comprehensive safety concept, the degree of burglary deterrence can be increased up to security class WK 3.



More design variety

We can also manufacture Castello window frames in different widths depending on your individual construction situation; to admit more light via small bathroom windows for example.



Thermally-separated steel reinforcement

The transmission of heat is significantly reduced by introducing polyamide webs and a polyurethane insulation core between the sections of steel reinforcement (thermal separation). For the Castello and Palazzo 5-chamber systems the U_f value of $0.2 \text{ W}/(\text{m}^2\text{K})$ has therefore been improved and is now $1.1 \text{ W}/(\text{m}^2\text{K})$.



Permanently tight

Our high-quality EPDM gaskets deliver what they promise, even after many years. The exceptionally weather-resistant material is highly resilient which guarantees long-term tightness. This avoids draughts and heat losses.



Ease of cleaning

Owing to their smooth, highly-compressed surface, the profiles are especially dirt-repellent and easy to clean and attract less dust due to the lower static charge. The windows are easy to clean as there are no corners and recesses in the frame.



PALAZZO

THE HARMONIOUS WINDOW IN EVERY RESPECT

When you personally opt for quality and style this has a name: Palazzo. Palazzo is the only choice of window for those who know what they want – a rounded appearance in every respect that satisfies the most ambitious design expectations. We don't like to compromise either, which is why we offer a more or less infinite number of individual options that make your tailor-made Palazzo window the unique product it should be.

Palazzo

The stylish round design window

Your house is a special thing. And a special house deserves special windows. When you opt for Palazzo you are spoilt for choice when it comes to frame shape, glass types, hardware and handles not to mention countless colours. And it's not just the visual appearance of your window you can tailor to your individual requirements, we also offer optional security, thermal insulation and acoustic protection features and a comprehensive range of accessories so we can adapt your window to your personal living situation and requirements. We offer the widest proliferation of variants in the industry so you can rest assured that you will receive one window solution: the right one.

Technical characteristics of Palazzo

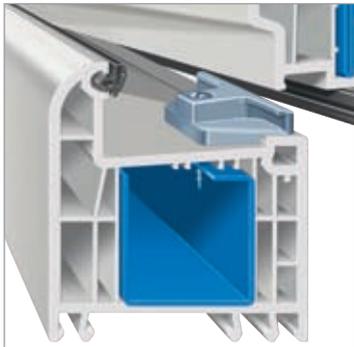
Profile system	5-chamber profile
	Installation depth: 70 mm
	View: semi-recessed
	2 gaskets
	Frame: PVC profile with general steel stiffening
	Sash: PVC profile with general steel stiffening
	All profiles with rounded appearance
Thermal insulation	Thermal transmission coefficient of window up to $U_w = 0.76 \text{ W/(m}^2\text{K)}$
	Thermal transfer coefficient of glazing up to $U_g = 0.4 \text{ W/(m}^2\text{K)}$
Sound insulation	Sound insulation value of window up to $R_w = 44 \text{ dB}$
Gaskets	Inserted EPDM gaskets (exceptionally weather resistant and highly resilient)
Security	100 kg hinges
	Standard mushroom cam locks
	Can be upgraded to security class WK 3 according to DIN EN 1627-1630
Hardware fixing	All security-relevant and load-bearing components are screwed into steel
Maximum sash sizes	Windows 1500 mm x 1400 mm
	Balcony doors 1200 mm x 2500 mm



Cutaway view of Palazzo system

PALAZZO

- Facilitates systematic comprehensive round design
- Lends your facade a distinctive appearance



Long service life

With Palazzo, all hardware is screwed into the all-round steel reinforcement – not just the PVCu, for example. This guarantees problem-free functionality for decades.



More light and elegance

The particularly slender window frames ensure greater light penetration. The round design is consistently followed through in the sash, frame, mullion, French type slave sash and Georgian bars which gives the window its elegant appearance.



Beautiful and concealed

The concealed hardware (optional) enhances the aesthetics and sets new standards in design and functionality.



Harmonious colours

Palazzo is available in different plain colours and wood structure colours for the interior.



Permanently tight

Our high-quality EPDM gaskets deliver what they promise, even after many years. The exceptionally weather-resistant material is highly resilient which guarantees long-term tightness. This avoids draughts and heat losses.



Ease of cleaning

Owing to their smooth, highly-compressed surface, the profiles are especially dirt-repellent and easy to clean and attract less dust due to the lower static charge. The windows are easy to clean as there are no corners and recesses in the frame.

SMARTLINE



THE SIMPLY INGENIOUS SOLUTION

Whether you are a young family looking for windows for your new home or have finally got round to doing the refurbishment you have been meaning to do for a while, there's one thing you should not do without: high quality windows. This is because if your only criterion is the lowest possible price, you could well be trimming your budget in the wrong area. We have developed a clever solution to make sure this doesn't happen to you. SmartLine has a particularly favourable price-performance ratio, is suitable for new build and renovation projects and is a reliable all-rounder which effortlessly delivers comfort, tranquillity and security.

SmartLine

The reliable quality window

Whether new build or renovation project, SmartLine has everything you need from a window. In addition to fulfilling aesthetic requirements, it more importantly also performs all the necessary technical functions and reliably demonstrates its suitability for everyday use. So for you, SmartLine means the heat stays in and the noise stays out – and with plenty of light to boot. This window is also impressive in terms of security as it is equipped with suitable hardware. In a nutshell, our SmartLine is simply clever.

Technical features of SmartLine

Profile system	5-chamber profile
	Installation depth: 70 mm
	View: recessed and semi-recessed
	2 gaskets
	Frame: PVC profile, steel stiffening depending on size in accordance with RAL
	Sash: PVC profile, steel stiffening depending on size in accordance with RAL
Thermal insulation	Thermal transmission coefficient of window up to $U_w = 0.83 \text{ W/(m}^2\text{K)}$
	Thermal transfer coefficient of glazing up to $U_g = 0.4 \text{ W/(m}^2\text{K)}$
Sound insulation	Sound insulation value of window up to $R_w = 46 \text{ dB}$
Gaskets	Inserted EPDM gaskets (exceptionally weather resistant and highly resilient)
Security	100 kg hinges
	Can be upgraded to security class WK 1 according to DIN EN 1627–1630
Hardware fixing	All security-relevant and load-bearing components are screwed through at least 2 PVCu walls
Maximum sash sizes	Windows 1500 mm x 1400 mm
	Balcony doors 1200 mm x 2500 mm



SmartLine semi-recessed

Reinforcement designed in accordance with RAL-GZ 716/1



SmartLine semi-recessed

Reinforcement designed in accordance with RAL-GZ 716/1

SMARTLINE

- For price-aware discerning buyers
- Reliable in everyday use
- Sound functionality



Comfort

The SmartLine windows with thermal insulation are kind to the environment and eliminate unnecessary heating costs when compared to cheap windows. SmartLine achieves favourable thermal insulation characteristics with the standard thermal glazing system ($U_w = 1.3 \text{ W}/[\text{m}^2\text{K}]$). The heat insulation value can be improved further using special glass.



Tranquillity

Robust windows are the best way to keep out noise of any kind. The EPDM gasket and range of soundproof glass that feature in the SmartLine in particular guarantee peace and quiet and maximum sound insulation values of up to 44 dB (soundproof class IV).



Security

When you install SmartLine windows you make life difficult for burglars. Even the standard version of this reliable quality window provides effective basic protection. As an option, this can be upgraded to resistance class 1 (WK 1).



BALCONY AND PATIO

DOORS

QUALITY ON ALL FRONTS

Open up new perspectives for yourself and your own four walls, and more scope for living. Modern design and large-surface door and window fronts blur the boundaries between your garden, patio, balcony or conservatory and your indoor living space. A simple balcony door, large-surface tilt and slide door or innovative lifting sliding door, whatever option you choose you can rest assured it will be the right solution for your individual building situation. Although the opening type in each case is different, what they do have in common is quality, engineering and workmanship to satisfy the most stringent demands.

Balcony and patio doors

Our extended product range for holistic requirements

When you think about your house or apartment you tend to think of it not in terms of windows, but as an overall expression of your quality of life and individual style. We tend to think along the same lines which is why we offer not only the right windows, we also of course offer suitable balcony and/or patio doors with a similar range of design options for every living situation. Your Weru specialist can advise you on which patio doors are the best match for your window system.



The terrace doors are built according to the same principle as the windows

- Same quality expectations: stable profiles, innovative technologies and ease of operation
- Identical optional equipment: from thermal glazing through to burglary deterrence and surveillance
- Consistent appearance in terms of colour and form. Why not make use of the large selection of Weru colours.
- One-stop advice, planning and installation plus comprehensive services for lasting enjoyment of windows and doors.

The balcony door – the universal classic

The Weru balcony door is available as a single, double or triple leaf version for tilting and turning. A device which is integrated into the standard version ensures that the balcony door is held shut and does not simply open due to a gust of wind. An aluminium profile provides additional protection to the lower frame which is frequently subject to high levels of stress. As an option, the balcony doors can of course also be equipped with Weru roller shutters.



Technical features of balcony door

Energy efficiency	$U_i = 0.9-1.3 \text{ W/(m}^2\text{K)}$
	$U_w = \text{up to } 0.68 \text{ W/(m}^2\text{K)}$
Burglary deterrence	WK 1**, WK 2**, WK 3**
Maximum sash size	1300 cm x 2600 cm*
Acoustic protection (R_{wp})	44 dB
Barrier-free	Yes
Can be upgraded to an entrance door (lockable with profile cylinder)	Yes

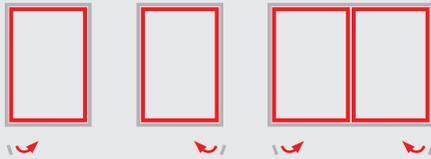
* as AFINO-tec version.

** The AFINO systems are also available in security classes RC 1-3 acc. to EN 1627-1630.

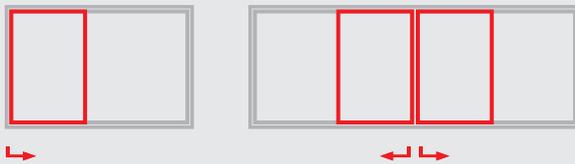


OPENING EXAMPLES AT A GLANCE

Balcony doors



Tilt and slide doors



The tilt and slide door – wide window fronts with ventilation options

The tilt and slide door can be tilted to provide ventilation and pushed open sideways to provide access. This operation is carried out via a smooth-running one-handed lever handle. Force-controlled scissor mechanisms initially push the door leaf into the tilt position, when the handle is turned further out of the horizontal position this brings the door leaf back into the parallel position from which it can easily slide to one side.



Technical features of tilt and slide door

Energy efficiency	$U_f = 0.9\text{--}1.3 \text{ W}/(\text{m}^2\text{K})$
	$U_w = \text{up to } 0.68 \text{ W}/(\text{m}^2\text{K})$
Burglary deterrence	WK 1, WK 2
Maximum sash size	1600 cm x 2600 cm*
Acoustic protection (R_{wp})	44 dB
Barrier-free	No
Can be upgraded to an entrance door (lockable with profile cylinder)	Yes

* as AFINO-tec version.

The lifting sliding door

Outstanding operating comfort and technology

The Weru lifting sliding door is a space-saving solution which is recommended for extremely large door openings. The precision guidance of the door leaf at the top and bottom means it can be opened and closed sideways very easily. It also offers effective thermal insulation, maximum tightness, exceptional stability and reliable burglary deterrence. The lifting sliding door already complies with the more stringent requirements of the German Energy Saving Ordinance which will come into force on 2015 and can be equipped with the Weru secur monitoring system if required.

Technical features of lifting sliding door

Energy efficiency	$U_f = 1.3 \text{ W}/(\text{m}^2\text{K})$
	$U_w = 0.8 \text{ W}/(\text{m}^2\text{K})$
Burglary deterrence	WK 1, WK 2
Maximum sash size	3000 cm x 2700 cm
Acoustic protection (R_{wp})	42 dB
Barrier-free	Yes
Can be upgraded to an entrance door (lockable with profile cylinder)	Yes



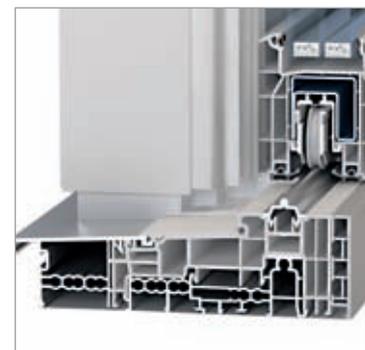
High operating comfort

Special steel-reinforced running carriage housings stabilise the sashes which therefore slide open and closed sideways very easily due to the smooth-running operation. A special barrier-free threshold is available on request (according to DIN 18040) for virtually seamless transition to outdoors.



Outstanding energy efficiency

As the 86 mm thick GFP high-tech sash profiles are fully-reinforced, the steel reinforcement could partially be omitted thus achieving a U_f value of $1.3 \text{ W}/(\text{m}^2\text{K})$. A U_w value of $0.8 \text{ W}/(\text{m}^2\text{K})$ is therefore possible with Weru thermal glazing.

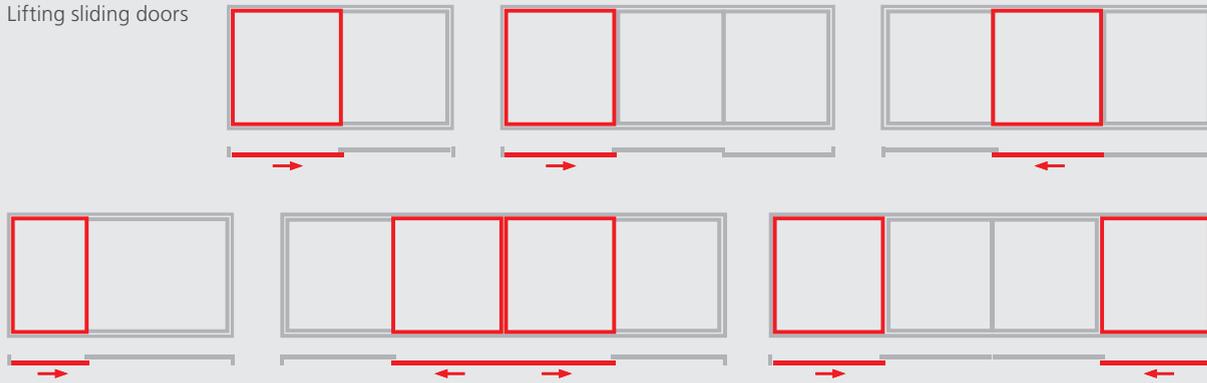


More comfort

The ingenious chamber geometry of the PVCu-aluminium bracket ensures outstanding energy efficiency and reduces the danger of condensation forming in the area of the threshold.

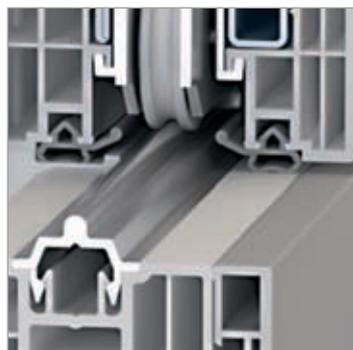
ALL OPENING VARIANTS AT A GLANCE

Lifting sliding doors



Enhanced living comfort

The special profile construction allows a glazing thickness of 53 mm to be used thus allowing functional glazing to be used to provide a greater degree of thermal insulation, burglar protection and acoustic protection according to the requirements of your living situation.



Outstanding tightness

Peripheral sash gaskets, special drop-down gaskets and seals on the centre closing profiles ensure outstanding air tightness and effectively keep out driving rain when the lifting sliding door is closed.



Outstanding stability

Fully-reinforced GFP high-tech sash profiles ensure outstanding dimensional stability and make sensational sliding sash sizes of 3 m x 2.70 m possible thus admitting more daylight into the living space. The stabilised running carriages guarantee load transfer for heavy triple glazing systems weighing up to 300 kg.



ROLLER SHUTTER AND VENETIAN BLINDS

THE INGENUOUS SYSTEM SOLUTION FOR ALL WHO SEE THEIR WINDOWS AS MORE THAN JUST WINDOWS

If you choose a Weru window complete with roller shutter or venetian blind this comes with decisive benefits: you receive windows and roller shutters or venetian blinds that are perfectly matched and fully assembled to a high degree of precision at the factory. This saves on time, costs and nerves, and dispenses with the need for the complex coordination of deadlines for individual window and roller shutter installers.

Roller shutter and venetian blind as complete window element

All in one, all for you

Whether you opt for a concealed version or a compact solution – Weru has the right system for every building situation, which also incidentally satisfies all requirements of the Energy Saving Ordinance in Germany. Special requirements in relation to style, material and features are also no problem. You can for example fit an optional insect blind which can be operated separately to all roller shutter windows.



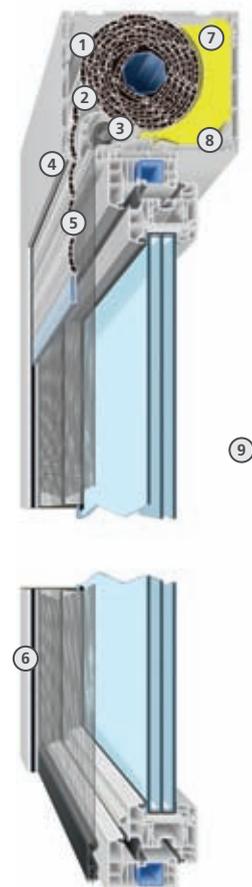
This speaks in favour of an all-in-one window element

- **Made to measure:** from a technical standpoint, the roller blinds, venetian blind boxes and windows are harmonised so they fit perfectly with one another. This guarantees a high degree of stability, optimum sound and thermal insulating properties and outstanding tightness.
- **A one-stop service:** installation deadlines of individual tradesmen no longer require coordination
- **Individual:** style and material according to special request
- **Important for the planning of new building:** architects can dispense with box lintels. The Weru roller shutter window is mounted as a unit in one operation only.
- **Improved insulation:** synergic effects for the insulation

THE COMPACT SOLUTION (FE 99) – FOR RENOVATION AND NEW BUILD PROJECTS

- ① **Integrated anti-push-up lock**
The optional anti-push-up lock prevents the shutter from being pushed up.
- ② **Can be used individually in new build and renovation projects**
Flexible application: due to different box heights (175, 205 and 240 mm) and box depths (218 and 250 mm), use of plaster bases and mounting option for shutters in new build and renovation projects.
- ③ **Integrated insect screen roller blind (optional) protects you from unpleasant biting insects**
 - Straightforward one-hand operation
 - Insect blind is protected from soiling and the weather
 - The insect blind can be retrofitted
- ④ **Top box insulation and top box covers**
Optional top box insulation available.
 - No thermal bridging with roller blind elements that project beyond the masonry jamb
 - Prevents condensation formation

- ⑤ **High functional reliability due to interlinked roller shutter curtain**
Made of aluminium or PVCu in different colours and slat sizes, with ventilation slots.
- ⑥ **Low-noise operation due to special rubber profiles**
- ⑦ **Satisfies the most stringent requirements in relation to thermal insulation and acoustic protection**
Special wedge-shaped thermal insulation ensures favourable thermal and sound insulation values.
 U_{sb} value: 0.75–0.83 W/m²K, sound insulation value: standard: $R_{WP} = 37$ dB, optional: $R_{WP} = 44$ dB.
- ⑧ **Inspection from below and behind is possible**
Adaptation in individual cases to the relevant building situation.
- ⑨ **Smooth operation without large amount of effort**
Supplied with crank as standard for smooth and long-lasting roller shutter operation. In contrast to the belt:
 - no breaking of belt pull
 - soiling can easily be removed
 More comfort with Weru roller shutter controllers.



CHOOSE YOUR INDIVIDUAL ROLLER SHUTTER CURTAIN



Made of PVCu



Made of aluminium



In different colours

THE RECESSED OR RENDER SOLUTION (FE 1) – FOR NEW BUILD AND LARGER CONVERSION PROJECTS

① **Satisfies the most stringent requirements in relation to thermal insulation and acoustic protection**

The box is made out of PUR rigid foam achieves high thermal and sound insulation values **up to max.:**

**$U_{sb} = 0.6 \text{ W}/(\text{m}^2\text{K})$,
Standard: $R_{wf} = 37 \text{ dB}$.**

② **High functional reliability due to chain-link roller shutter curtain**

Made of aluminium or PVCu, available in range of colours, with ventilation slots and interlinked slats for optimum functional reliability.

③ **Integrated insect screen roller blind protects you from unwanted biting insects**

An optional insect blind is available for all roller shutter sizes and is integrated in the shutter box.

- Straightforward one-hand operation
- especially tear resistant due to surrounding edging
- height-adjustable
- supplied with roller blind brake as standard

④ **Low-noise operation due to integrated rubber profiles**

Roller shutter guide rails made of PVCu in colour to match window. Special rubber profiles ensure low-noise operation.

⑤ **Optimum plaster bond**

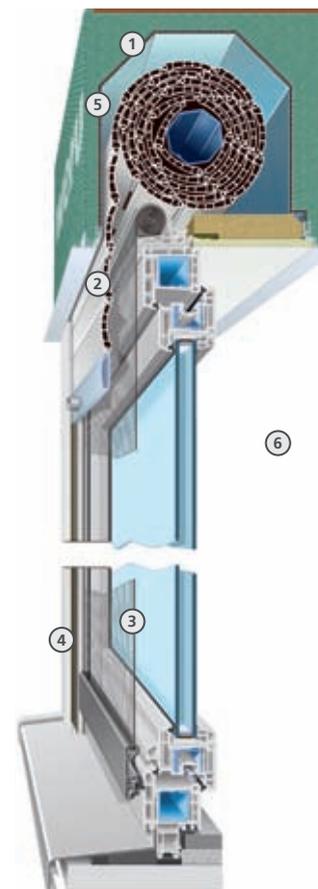
The specially developed, large-pored surface ensures optimum plaster or clinker bond.

- No plaster spalling
 - no cracking
- Box depths 245, 300 and 365 mm.

⑥ **Smooth operation that does not require a large amount of effort**

Supplied with crank as standard for smooth and long-lasting roller shutter operation. In contrast to the belt:

- no breaking of belt pull
 - soiling can easily be removed
- Weru roller shutter control systems ensure even greater comfort.



Roller shutter and venetian blind solutions

Visibility, light and thermal insulation par excellence

You can control the degree of light with our roller shutter and venetian blind solutions according to your individual requirements.

From daylight illumination with no glare effect through to complete blackout of the room, the choice is yours. The style and material of your individual roller shutter or venetian blind solution can of course be adapted to your individual requirements.

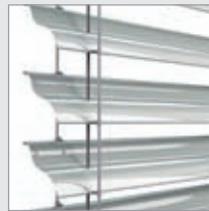
COMPREHENSIVE RANGE OF SLATS



Flat slat 80 mm



Folded-edge slat 80 mm



Triple curve slat 85 mm
(also suitable for blackout)

THE COMPACT SOLUTION (FE 1 – COLD STOP BOX) – FOR RENOVATION AND NEW BUILD PROJECTS

① **Leak-tight termination prevents draught air**

The box is completely closed on the inside with external inspection is impressive due to its high degree of tightness and is fully integrated into the masonry. The area of the box on the room side is fully plastered.

② **Satisfies the most stringent thermal insulation and acoustic protection requirements**

The box is made out of PUR rigid foam achieves high thermal and sound insulation values **up to max.:**

$U_{sb} = 0.45 \text{ W}/(\text{m}^2\text{K})$,

Standard: $R_{WP} = 37 \text{ dB}$.

③ **High functional reliability due to interlinked roller shutter curtain**

Made of aluminium or PVCu, available in range of colours, with ventilation slots and interlinked slats for optimum functional reliability.

④ **Integrated insect blind protects you from unpleasant biting insects**

An optional insect blind is available for all roller shutter box sizes, can be operated separately and is integrated in the roller shutter box.

- straightforward one-hand operation
- especially tear resistant due to surrounding edging
- height-adjustable
- supplied with roller blind brake as standard

⑤ **Low-noise operation due to integrated rubber profiles**

Roller shutter guide rails made of PVCu in colour to match window. Special rubber profiles ensure low-noise operation.

⑥ **Optimum plaster bond**

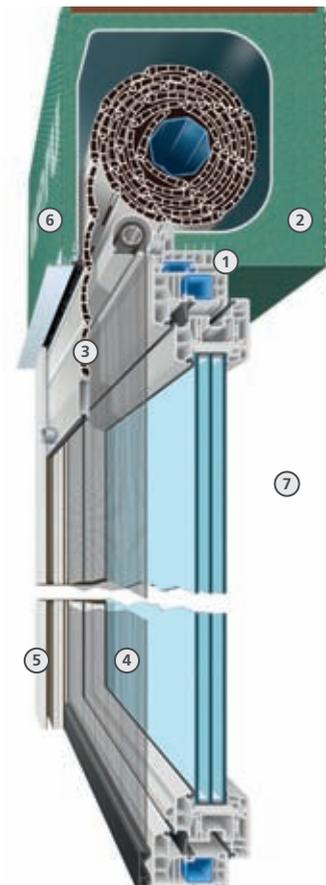
The specially developed, large-pored surface ensures optimum plaster or clinker bond.

- no plaster spalling, no cracking
- Box depths 245, 300 and 365 mm.

⑦ **Smooth operation that does not require a large amount of effort**

Supplied with crank as standard for smooth and long-lasting roller shutter operation. In contrast to the belt:

- no breaking of belt pull
 - soiling can easily be removed
- Weru roller shutter control systems ensure even greater comfort.





Blackout slat 73 mm



Blackout slat 90 mm



Blackout slat 93 mm

THE COMPACT SOLUTION (FE 1 – VENETIAN BLINDS) – FOR RENOVATION AND NEW BUILD

① Optimum heat protection

The venetian blind solution can reduce solar irradiation by up to 75 %. This significantly reduces the temperature on hot days and ensures a pleasant climate.

② Satisfies the most stringent thermal insulation and acoustic protection requirements

The box is made out of PUR rigid foam achieves high thermal and sound insulation values **up to max.:**

$U_{sb} = 0.29 \text{ W}/(\text{m}^2\text{K})$,

Standard: $R_{WP} = 37 \text{ dB}$.

③ Long-lasting aluminium slats

Weru slats are manufactured from high-quality aluminium and are corrosion-resistant and durable.

④ Integrated insect blind protects you from unpleasant biting insects

All sizes of venetian blind box can be equipped with an optional insect blind which can be operated separately and is integrated into the venetian blind box.

- straightforward one-hand operation
- especially tear resistant due to surrounding edging

- height-adjustable
- supplied with roller blind brake as standard

⑤ Low-noise operation due to integrated rubber profiles

Venetian blind tracks made of PVCu in colour to match window. Special rubber profiles ensure low-noise operation.

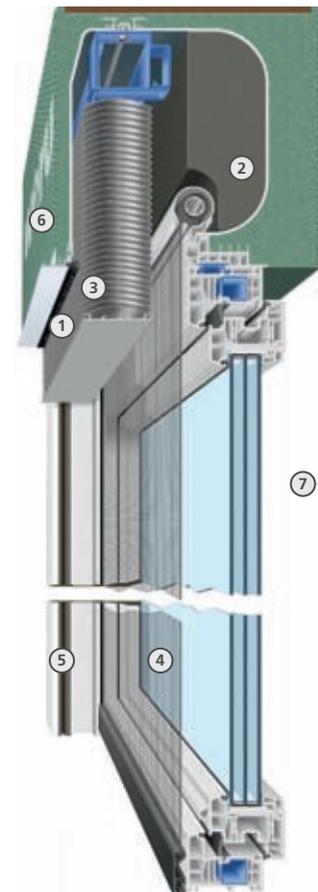
⑥ Optimum plaster bond

The specially developed, large-pored surface ensures optimum plaster or clinker bond.

- no plaster spalling
 - no cracking
- Box depths 245, 300 and 365 mm.

⑦ Smooth operation that does not require a large amount of effort

Comes with motor as standard for easy operation. Weru control systems ensure even greater comfort.



Automatic system for roller shutters and venetian blinds

Modern light management at the push of a button

Nowadays, modern light management and new windows simply go hand in hand. And, in situations where cumbersome folding shutters are still used or where curtains provide the option of either light or dark and nothing in-between, a change may well be long overdue. By finding an appropriate comfort solution for roller shutters or venetian blinds you can make things easier for yourself and create a light atmosphere in your rooms according to your individual requirements.



AUTOMATIC ROLLER SHUTTERS AND VENETIAN BLIND SYSTEM

- Light management at the push of a button
- Ensures pleasant daylight atmosphere without glare effect
- Prevents unpleasant heating of living areas

ServoLift-RTS – for your added comfort

Prefer to operate your roller shutter/venetian blind via an up/down button? If yes, then the basic version of the ServoLift-RTS is just what you need. The visually appealing operator control panel is integrated into the window frame and is available either in white or matt silver. As an option, you can also activate the ServoLift-RTS via a programmable timer switch. This then ensures that the up and down operation you can adjust to suit your individual requirements – with a different setting for each day of the week – is performed on a daily basis. With the optional light sensor, the control panel can detect when the individual roller shutters should open and close. The control system therefore reacts to bright light by lowering the roller shutter thus protecting your plants and furniture.



ServoLift-RTS

Raising and lowering of roller shutter/venetian blind with up/down button. The visually appealing control panel is integrated into the window frame.



Timer switch option

You can program the daily up and down operation of the roller shutters/venetian blinds individually or in groups, e. g. based on sunrise and sunset times.



Radioline option

You can comfortably operate your roller shutter or venetian blind from your armchair via the optional radio remote control.

Radioline – maximum comfort and convenience

Is it difficult for you to imagine life without a remote control for your TV, car or garage door? Then why not also opt for this highest possible degree of comfort with your roller shutters or venetian blinds? This system allows you to comfortably operate your roller shutter or venetian blind from your armchair via the optional remote control. What's more, if you would much rather the control of the roller shutters to be out of your hands completely, you can use the optional timer which ensures the roller shutters or venetian blinds are raised/lowered either individually or in groups, e. g. entire living room or entire south-facing side. Using the program, the roller shutter opens and closes after the sunrise or sunset times. You can therefore give the impression that you are still at home when you are actually away. As the system operates wirelessly, cable chases are on the whole not required; this is a big advantage, particularly with renovation projects, as there is less mess and dirt involved.

EQUIPMENT OPTIONS



70 Design features

We give you a diverse range of colours, building forms and Georgian bars to allow you greater freedom of expression



74 Thermal insulation features

More comfort and lower heating costs with thermal insulation glass and glass spacers



YOUR LIFE. YOUR WINDOWS. YOUR DESIGN OPTIONS.

Those who take their own unique approach to life should also be able to give their windows an individual touch. The design scope of Weru windows is virtually unlimited. Pragmatic and modern or classical and romantic: in the end it's your taste that decides. The variety of forms, Georgian bars, colours and handles that come with Weru windows give you freedom to express your individuality.

The same also applies if you specially request an even greater degree of security, warmth, tranquillity or improved ventilation. The features that you can combine with the window system you have chosen are shown in the table on p.88 and you can also ask your local Weru specialist.

76 Ventilation equipment

Switch on the relaxed feel-good atmosphere, ventilation aids, permanent ventilators and regulated ventilators

86 Acoustic protection features

Peace descends: with soundproof glazing and soundproof profiles

82 Security features

No weak points for burglars and more peace of mind for you with security glass, security hardware, security handles and the Weru secur monitoring system



Colours – entirely according to your personal taste

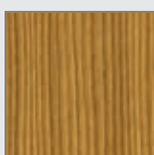
Select your favourite from more than 200 colour variations

You may wish to incorporate colourful accents, or maybe you would prefer to adopt a classic look as a reflection of your lifestyle. Weru gives you the flexibility and choice. High quality PVCu or shiny aluminium fronts? Laminated surfaces or painted surfaces? Whatever you decide, all colour coatings are exceptionally weatherproof and easy to clean. Above all however, the diversity of colours ensures a harmonious interplay between your windows and interior design.

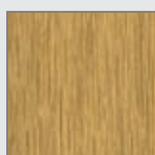


PVCU SURFACES – EXAMPLE OF COLOUR SCHEME

Up to 200 RAL classic colour shades are available with painted PVCu fronts. Or you may opt for a laminate using one of our many structure colours comprising expressive wood colours and plain colours.



mountain pine



light oak



grained white



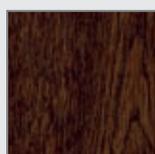
cream



dark brown



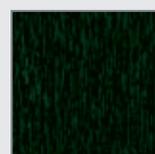
golden oak



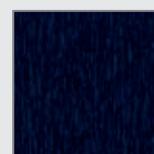
walnut V



dark green



monumental green



steel blue



rustic oak



sienna pn



light grey



grey



silver grey pearl structure



mahogany



marsh oak



slate grey finesse



anthracite grey



anthracite grey pearl structure

ALUMINIUM FACING – PLAIN COLOURS

The aluminium facing not only provides enhanced weather protection, it also provides additional design scope. In addition to 17 plain standard colours, up to 200 RAL Classic and more than 900 NCS colours are available.



ALUMINIUM FACING – WOOD STAINS

Aluminium doesn't have to look like aluminium. Why not combine the technical benefits of the aluminium facing with the advantages of a warm wood appearance using our six wood structure colours.



For technical printing reasons colours may differ from the actual colours.

Georgian bars and forms in abundance

We provide the framework for your creativity

Old, new, large, small – whatever the house of your dreams looks like, Weru has the windows to match. From completely conventional rectangular windows through to modern slanted windows and windows of all special shapes and sizes – you can have exactly the window you want that reflects your own personal taste. The innovative profile appearance, matching Georgian bars and special style windows that underscore the individual charm of historic old buildings perfectly round off the range of products.



FOUR GEORGIAN BAR VERSIONS FOR MORE LIVELY WINDOWS

Georgian bars in the space between the panes

The smooth solution for pragmatists: enhanced appearance and cleanability. Comes with a wide range of design options, such as a crossed or star-shaped arrangement of Georgian bars.



Glass division with Georgian bars

Those who have a close affinity with the classical style can opt to use "real" Georgian bars.

In addition layout variations, glass division with Georgian bars also offers creative scope e.g. by varying the colours or structure of the glazing elements.



Surface-mounted Georgian bars

Even if your windows are small, you don't have to go without the special look of "glass divisions with Georgian bars". These bars are mounted on the inside and outside of the glass pane and are slender to allow enough light to enter the room.



Georgian bar combinations

Externally mounted Georgian bars are ideal if you want to keep things simple yet retain stylistic integrity. If you choose this option, you can benefit from a three-dimensional appearance on the outside and also easy cleanability on the inside of the window.





Baroque



Classicism



Neo-Renaissance



Art Nouveau

STYLE WINDOWS ARE A TRIBUTE TO YOUR HOUSE

STYLISTIC AUTHENTICITY DOWN TO THE LAST DETAIL

The baroque window

"Barocco" is an old portuguese jewellers' expression which describes an irregular pearl. Accordingly, the baroque forms are decorative, dynamic and emotional: semicircular arched or rectangular windows are brought to life with mullion divisions in keeping with the style and moulded decorative elements such as ornamental elements, impost mouldings, bevel sashes and weather bars.

The classic revival window

The classic revival harks back to the simplicity and classical discipline of ancient times, which is why the windows of the classic revival are reduced to simplistic rational forms such as the crossbar window. Subtle ornamentation is applied to the upright posts, sill block and weather bar.

The neo-renaissance window

The era of "historicism" is characterised by references to and reinterpretations of the style of historic building forms. Typical elements are the rounded segmental arch and windows with three divisions with large lower panels and toplight with Georgian bar divisions, to which ornamental elements for posts, sill block and impost moulding as well as weather bar and various capitals are added.

The Art Nouveau window

Art Nouveau architecture is characterised by asymmetric forms combined with linear ornamentation. In windows this style is expressed in a multiplicity of forms and Georgian bars which are partially filled with ornamental glass or glass artwork.

Please consult your Weru specialist to find out the available options for combining Georgian bars and systems who can also give you expert advice on the renovation, refurbishment or modernisation of listed buildings.

Insulating glass for more energy efficiency

More heat in the house, and greater savings in heating costs for you

Did you know that old leaky windows are without question among the worst energy guzzlers? But it doesn't have to be this way. Activate your energy saving potential with Weru windows. Our windows can achieve thermal insulation values that are coming increasingly closer to those of solid masonry. This means that the stringent requirements of the German Energy Saving Ordinance (EnEV) can also easily be met. Thermal insulation measures for the glazing, glass spacers, PVCu profiles and reinforcement frames are decisive in achieving this result.

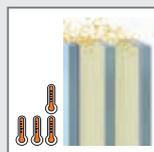


SO HOW MUCH THERMAL INSULATION DO YOU NEED FOR YOUR WINDOW?



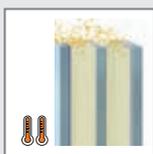
Weru-ExtraTherm

Double thermal glazing with argon gas filling and aluminium spacers: standard glazing with a U_g value of $1.1 \text{ W}/(\text{m}^2\text{K})$.



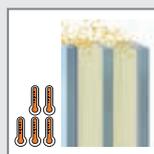
Weru-MegaTherm

Triple thermal glazing with two coated panes, krypton gas filling and stainless steel spacers: the thermal insulation option with a U_g value of $0.5 \text{ W}/(\text{m}^2\text{K})$.



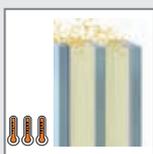
Weru-UltraTherm

Triple thermal glazing with two coated panes, argon gas filling and aluminium spacers: the thermal insulation option with a U_g value of $0.8 \text{ W}/(\text{m}^2\text{K})$ with a high energy transmittance.



Weru-GigaTherm

Triple thermal glazing with two specially-coated panes, krypton gas filling and stainless steel spacers: the thermal insulation option with a U_g value of $0.4 \text{ W}/(\text{m}^2\text{K})$.



Weru-KlimaTherm

Triple thermal glazing with two coated panes, argon gas filling and aluminium spacer: the thermal insulation option with a U_g value of $0.7 \text{ W}/(\text{m}^2\text{K})$.

GOOD TO KNOW

How can you recover energy with thermal insulation glazing?

Weru insulating glass is coated with ultra-thin metal foil and allows the sun's short-wave light radiation through but reflects the long-wave thermal radiation back into the living area. The inert gas fillings in the space between the two panes do the remaining work that is required to increase the degree of thermal insulation.

Why is a spacer worthwhile?

Small component, big effect. As glazing edge compound, the spacer retains the existing inert gas in the space between the panes and prevents the ingress of water vapour.

New windows – it's worth it

Calculate how much you could personally save using the Weru energy saving calculator which you can find under the Service menu item at



Aluminium spacers are resistant to temperature, UV and ageing, absorb dynamic stresses and, with a length-specific thermal transmission coefficient of 0.064 W/(mK), also have excellent thermal insulation properties.



Stainless steel spacers consist of more effective heat insulating material with a length-specific thermal transmission coefficient of 0.048 W/(mK). This minimises the risk of condensation forming above the glazing bead.

Glazing	Glass configuration	Glass spacer	Ψ_g length-specific thermal transmission coefficient of spacer	U_g value of glazing (DIN EN 673)	g value of glazing (DIN EN 410)	U_f value of frame (DIN 12412-2)	U_w value (DIN EN ISO 10077)*
Weru-ExtraTherm	4/16A/4	Stainless steel ¹	0,051 W/(mK)	1.1 W/(m ² K)	60 %	0.9 W/(m ² K)	1.16 W/(m ² K)
Weru-UltraTherm	4/12A/4/12A/4	Stainless steel ¹	0.048 W/(mK)	0.8 W/(m ² K)	63 %	0.9 W/(m ² K)	0.95 W/(m ² K)
Weru-KlimaTherm	4/12A/4/12A/4	Stainless steel ¹	0.048 W/(mK)	0.7 W/(m ² K)	47 %	0.9 W/(m ² K)	0.88 W/(m ² K)
Weru-PlusTherm	4/10K/4/10K/4	Stainless steel	0.048 W/(mK)	0.6 W/(m ² K)	47 %	0.9 W/(m ² K)	0.81 W/(m ² K)
Weru-MegaTherm	4/12K/4/12K/4	Stainless steel	0.048 W/(mK)	0.5 W/(m ² K)	47 %	0.9 W/(m ² K)	0.74 W/(m ² K)
Weru-GigaTherm	4/12K/4/12K/4	Stainless steel	0.048 W/(mK)	0.4 W/(m ² K)	37 %	0.9 W/(m ² K)	0.68 W/(m ² K)

* The U_w value is based on the standard dimension 1.23 m x 1.48 m – wide frame and sash profile. ¹ auxiliary equipment.

Ventilation aids for a healthy living climate

Breathe deeply, experience fresh air, a natural living pleasure

Did you know that rooms have to breathe as well? Stale air, odours and moisture can not just be unpleasant, they can also adversely affect the value of your living spaces and fabric of the building on a lasting basis. In former times the exchange of air took place "automatically" as it were via small gaps and cracks. In this era of energy saving leak-tight construction the necessary exchange of air cannot be achieved passively and we have to lend a helping hand: by ventilating correctly. This is no problem using the small or large ventilation aids that are available from Weru.



PRACTICAL VENTILATION AIDS AND TRIED-AND-TESTED REGULATING VENTILATOR

Open the windows – this is certainly the most effective and fastest way to achieve a pleasant living climate in your rooms. Weru can support you in this regard and supplies a range of ventilation aids to ensure a well regulated supply of fresh air.



Gap ventilator

This item of hardware ensures that the circulation is regulated with the minimum sash clearance. The sash can be set down horizontally by 6 mm by turning the handle to the gap ventilator position to allow fresh air to flow in. The gap is not visible from the outside so nobody can see that the window sash has been set down slightly. You can retrofit a gap ventilator to Weru windows at any time.



Variable tilt width limitation

This means you can decide how much fresh air flows into the room in the tilt position. You can therefore adjust the opening angle infinitely according to your requirements using the window handle. The integrated slam guard prevents the open window from slamming shut.

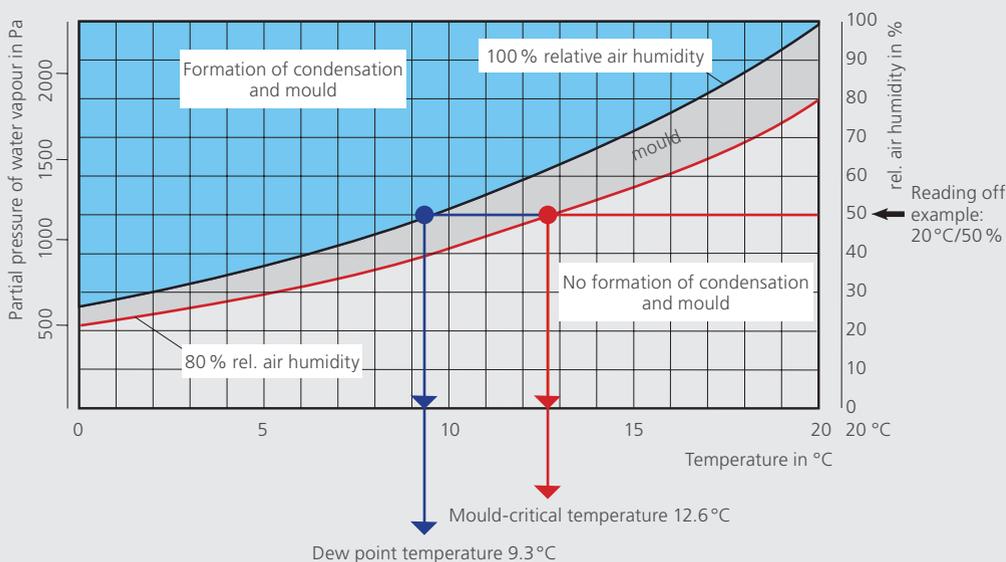


Slam stop

If you open your window wide for intermittent ventilation and at the same time leave the internal doors this produces a draught. In this case, the variable opening width restriction also holds the window sash safely and prevents it from suddenly slamming shut.

The temperature and moisture content of the air have a significant effect on the living climate

Air can absorb and store water in the form of steam and subsequently release it as condensation. The maximum quantity of water vapour which can be absorbed depends on the air temperature. One cubic metre of air at 0°C for example can absorb 5 g of water vapour, as opposed to 17 g/m³ at 20°C. This maximum quantity of water vapour which can be absorbed corresponds to a relative humidity of 100% in each case. Conversely, when air cools it eventually reaches the so-called dew point. condensation forms, usually in places such as room corners or window reveals close to the (colder) surfaces of external components. The moisture content of living spaces can be influenced by correct ventilation and the surface temperature at the external components is determined by the thermal insulation in the structure.



Relationship between dew point temperature and mould-critical temperature

Comfortable systematic ventilation

First-rate climate using manual ventilators or permanent ventilation

Weru windows give you the control you need to perfectly satisfy your fresh air requirements, also automatically if you want. Additional components ensure that the air in your rooms changes regularly. These ventilation devices are particularly suitable for rented apartments. Enough fresh air always enters the apartment through the integrated automatic ventilation irrespective of the ventilation behaviour of the occupant(s). This prevents moisture damage, e.g. mould.



INFINITELY VARIABLE MANUAL VENTILATION



with sliding control



with pollen filter

Weru-Fresh ventilator

The fresh air inlet of the Fresh ventilator can be adjusted individually and infinitely via a sliding mechanism.

The system can achieve an impressive flow rate of 16 m³/h at 4 Pa. The Fresh ventilator is particularly suitable for single-family dwellings and multi-storey new build and renovation projects.

A version of this ventilation system with acoustic protection and integrated pollen filter is also available. This means that problem-free ventilation is possible for persons with allergies or residents of streets with heavy traffic.

Well regulated ventilation is measurable

The air exchange rate refers to the proportion of room air that is exchanged per hour by means of ventilation. This is determined by measuring the flow rate (m³/h) with an air pressure of 4 Pa. The higher the air exchange rate, the lower the relative air humidity will be (the maximum quantity of water that the air can absorb at a specific temperature) and the lower the risk of mould or other moisture damage occurring.

FRESH AIR FOR YOUR COMFORT: PERMANENT VENTILATION SYSTEMS



Regal-Air

The Regal-Air ventilation system is a self-regulating system which is installed in the upper section of the window and can also be retrofitted if required. The fresh outside air is fed in from the side via the constricting gasket in the window rebate. During normal operation, the already preheated air then rises between the sash and the frame up into the room via the ventilator below the ceiling. If there is a storm or strong wind, the system remains automatically closed to ensure that no draught effects whatsoever occur. The flow rate of the Regal-Air is 2.1 m³/h at 4 Pa. Additional benefit of the Weru window rebate ventilator: it shuts out noise, the device can achieve high sound insulation values up to acoustic protection class 4 (= 42 dB).



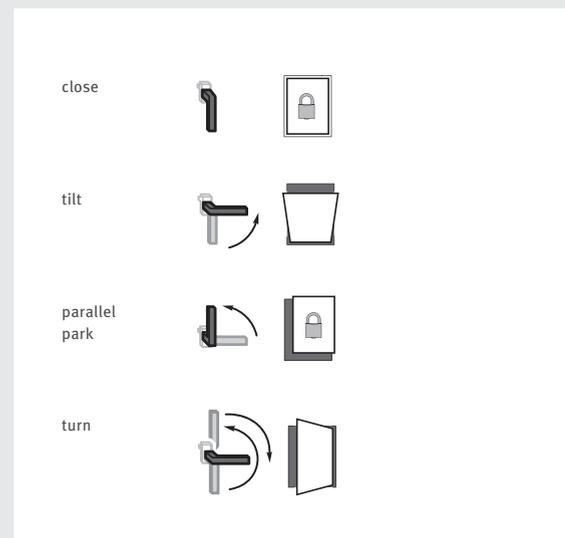
Weru-Air Comfort

Weru-Air Comfort – this intelligent ventilation system ensures a constant supply of fresh air whatever the weather. The air which enters from the outside flows upwards via recessed seals in the rebate and flows preheated via the special gasket into the room interior. When the wind is strong, the gasket lies against the opening gap thus restricting the quantity of air that can enter. In this event basic ventilation is thus ensured and draught effects are avoided. Compared to the Regal-Air system, Weru-Air Comfort can reach an even higher flow rate of 2.9–3.2 m³/h at 4 Pa with the gasket open. The ventilation system is not visible from the inside or the outside, even when the window is open. Weru-Air Comfort reaches high sound insulation values up to acoustic protection class 4.

Innovative ventilation technology for today and tomorrow

Fresh ideas for fresh air, security and energy efficiency

Is it possible to leave the house with the window open – with no security risk whatsoever? Incoming fresh air at 16–17 °C with an outdoor temperature of – 10 °C? Why not. If you have innovative Weru window technology at your disposal, why compromise when it comes to thermal insulation or security and, above all, ventilation.



VENTILATE WHENEVER YOU WANT

Safe&Go ventilator

Until now, if ventilation was required the windows were either tilted or fully opened. The innovative Safe&Go ventilator system allows the window sash to be parked parallel to the window frame at a distance of 6 mm. What makes this feature so special is that the window is locked on all sides in the ventilation position and is assessed as closed by the VdS (independent institute in Germany for security and fire protection). This means you can leave your windows "open" to ventilate when you go out shopping knowing that your home is secure.

- Rooms can be ventilated when windows appear to be shut
- Increased burglary deterrence up to security class WK 2 with window "open"
- No draught effect and window does not slam shut

Safe&Go automatic*

How can convenient ventilation be made even more convenient to use? By combining the new Safe&Go window hardware with a motorised control unit. The window therefore closes and opens according to requirements depending on the room climate or this can be pre-programmed using the timer function. Several windows can be controlled/activated simultaneously at the drive directly or via remote control.



Safe&Go ventilator



Safe&Go automatic

When the Safe&Go ventilator system is in operation, the window offers the same degree of burglary protection as if it were closed.

Here's how the Safe&Go ventilator system works

Thanks to the innovative window hardware, the window can not only be turned and tilted, it can also be moved into a parallel position and parked with a narrow ventilation gap. The all-round narrow air gap of 6 mm between the frame and the window sash produces a natural gentle type of ventilation. Exhaust warm air can escape at the top of the window and is immediately replaced by fresh air which flows in from below.



INTEGRATED VENTILATION SYSTEM WITH HEAT RECOVERY

AeroTherm ventilator*

AeroTherm – the integrated ventilation system with heat recovery – reconciles what have up till now been two conflicting objectives: ventilation and saving on heating costs. The AeroTherm ventilator operates according to the principle of regenerative heat exchange. The ceramic storage material in the profile is at the centre of the air flow produced by an EC motor with axial fan. By means of a reversible air flow the ceramic absorbs the thermal energy of the room air being drawn off and passes it to the incoming outside air. It does this with an unprecedented 90 % efficiency. The AeroTherm ventilator reaches a flow rate of 15 m³/h at 4 Pa. The integrated pollen and active carbon filter removes pollutants from the air. The AeroTherm ventilator can be operated via a rocker switch and also extremely conveniently via remote control.

This is how effective the AeroTherm ventilator is

Just what this incredible temperature efficiency of 90 % means can be illustrated by a straightforward example calculation. With an outside temperature of – 10 °C and a room temperature of 20 °C the temperature of the heated fresh air in the AeroTherm ventilator is 17 °C.



AeroTherm ventilator

- **Efficient:** heat recovery with 90 % efficiency
- **Environmentally clean:** saves energy and reduces your heating costs
- **Exclusive:** this ventilation system is only available from Weru
- **Clean:** integrated filters ensure that the room air is low in pollutants

* available from September 2012.

Security hardware and glazing – that leaves nothing to chance

Additional security in new build and modernisation projects

Did you know that our tested and certified products are on the list of recommended burglary-deterrent components, windows and doors published by the Criminal Investigation Department in Germany? This is solid proof that Weru windows and patio doors are ideal for keeping unwanted intruders out thanks to stable profiles, burglary-deterrent hardware, lockable handles and special security glass.



MECHANICAL RELIABILITY – THE BASIS FOR EFFECTIVE BURGLARY PROTECTION

The German CID established by analysing burglaries how the perpetrators operate and how they get past the windows. The hardware – i.e. the mechanical functional component that opens and closes the window – is a particular weak point. In some cases burglars also try to break the window pane then open the window using the handle.



The multistage hardware range by Weru

Weru offers burglary-deterrent hardware with several security levels depending on which level of protection is required, starting with the Weru standard hardware. The Weru standard hardware offers a greater level of burglary deterrence due to the three security corner transmissions with mushroom cam lock and rearward-engaging locking pieces on one side.

Hardware versions WK 1, WK 2 and WK 3 offer additional protection and certified security. The resistance classes WK 1*, WK 2* and WK 3* defined in the European standards DIN EN 1627–1630 can be attained using appropriate additional equipment and with corresponding installation.

* The AFINO systems are also available in security classes RC 1-3 acc. to EN 1627-1630.

YOUR SECURITY WINDOWS – COMPLETE WITH BURGLARY-DETERRENT GLAZING

It's difficult to get anything past Weru burglary-deterrent glazing! Denn diese Scheiben haben es in sich. The basis of the system is insulation glass, which consists of two panes of glass. Depending on the security requirements, one or both panes is replaced by special glass: toughened safety glass or laminated safety glass. The security class can be increased by varying the characteristics and thickness of the panes.



Toughened glass

"Prestressed glass" is tougher than conventional insulation glass. The especially high resistance to blows, impacts and temperature changes of this glass is achieved during a special manufacturing process that subjects the glass to high compressive and tensile stresses. The pane is ball impact resistant from a thickness of 8 mm. If the pane is actually destroyed, it breaks into blunt-edged fragments. The special breaking behaviour of safety glass offers double protection: firstly against the forceful impacts and secondly against injury.



Safety laminated glass

In this case the glass panes are bonded to an extremely tough tear-resistant plastic film that not only ensures the glass is very unlikely to break, it also ensures that the fragments adhere firmly to the film even if the pane breaks. And even in this case, a great deal of time, effort and a large number of tools would be required to break through the pane. The security class can be increased further by increasing the number of plastic films and glass panes.



Lockable handle – self-locking handle – standard handle



Child-proof lock

If the worst comes to the worst, the handles themselves will cause an obstruction

Standard handles may well be sufficient in the upper storey which is difficult to reach, but the ground floor is easier to access which is why Weru offers two burglary-deterrent handle types for ground floor windows: the self-locking handle prevents the fitting from being pushed up. The lockable handle also makes it more difficult for intruders to open the broken window by reaching in from outside.

Child-proof lock – just in case

As an extra precaution, families with small children may want to have additional protection against unwanted opening of the window by children. The special tilt-before-turn mechanism ensures that children can only tilt the window and not open it. The window can only be opened with a key.

Weru secur – the intelligent monitoring system

Your personal security system: your window

Hard-earned prosperity, a higher average age of population and an increase in the rates of burglary have made the need for security more pressing than ever. You should feel completely safe when you are at home. This is why Weru has taken steps to further improve the already high security standard of its windows. Weru secur windows with intelligent monitoring system are now available.



Weru secur – the security window with alarm function

In Weru secur windows, an electronic unit is installed in the window sash below the handle. This automatically monitors the window without the user having to program a control unit or remember a PIN code. The Weru secur window is active from the moment it is installed by the Weru engineers. You do not have to do anything yourself.

MAXIMUM SECURITY WITH NO FUSS

- No need to prime the monitoring unit
- It is impossible to forget to activate or deactivate the alarm
- No false alarm due to incorrect handling
- No key or combination of numbers required

Monitoring system or alarm system?

Our Weru secur monitoring system is a so-called standalone solution for each individual window. Its main purpose, similar to a car alarm system, is to startle intruders owing to its presence on the one hand and the piercing acoustic signal it emits in the event of a burglary.

Here's how Weru secur works

The monitoring system checks the position of the window sash and window handle. If the sash abuts and the handle is pointing downwards, the integrated alarm system is primed automatically. If in this condition an attempt is made to lever up the window from the outside, the system responds immediately by triggering an acoustic alarm. The alarm unit on the window handle emits an extremely loud piercing alarm tone. This normally lasts at least two minutes. The alarm cannot be deactivated during this time. If the window is closed once the alarm has been triggered it is cancelled automatically.



Red LED lights up

- Insecure condition
- Window has not been closed correctly
- The alarm is not active



Green LED lights up

- Secure condition
- Window is properly closed
- Alarm is active

Opening and closing indicator

Two light-emitting diodes (LEDs) indicate when the window is closed and whether it has been properly closed and is being monitored in this state. This means you always have the peace of mind of knowing that your window is definitely locked.

Note: the monitoring unit is powered by a leak-proof lithium button cell battery with a service life of approximately two years. Four weeks before the battery is fully discharged, a visual and acoustic signal is output to indicate that it needs to be replaced. Weru secur is battery operated which means it also works in the event of a power failure.



The Weru secur glass break alarm

This further increases the security of your window if required. An electronic glass break alarm monitors the pane of glass and responds to vibrations and the glass breaking frequency. The alarm will only be triggered if both conditions are met at the same time. This prevents the alarm from being triggered unnecessarily by a ball striking the window for example, or the noise of a bunch of keys, a storm or other disturbances (supersonic aircraft, etc.). The alarm system is also powered by a lithium button cell battery.

Soundproof glass – keeps the noise out

Select your personal level of soundproofing

Give yourself some peace and quiet. This is becoming more important than ever in our increasingly hectic daily life simply because the extent of nuisance noise is increasing at an alarming rate. Road traffic is particularly jarring on the nerves. Tolerance towards aircraft noise and neighbourhood noise is steadily decreasing. But you don't have to put up with it: Weru soundproofed windows give noise-plagued house and flat owners rejuvenating peace and quiet.



FOUR EXAMPLES OF SOUND-INSULATING GLAZING SYSTEMS BY WERU



Weru-KlimaTherm Phon

Configuration:
6/12/4/12/4
Sound reduction
index: 36 dB
Filling: argon



Weru-KlimaTherm Extra Phon

Configuration:
10/12/4/12/4
Sound reduction
index: 38 dB
Filling: argon



Weru-KlimaTherm Extra Phon SF

Configuration:
9SF/12/4/12/10
Sound reduction
index: 45 dB
Filling: argon



Weru-KlimaTherm Extra Phon SF 2

Configuration: 13
13SF/12/4/12/9SF
Sound reduction
index: 48 dB
Filling: argon

The insulation performance of insulation glass is significantly affected by the following factors:

- Weight (mass) of pane: thicker panes are heavier. Owing to the high mass of the pane, it does not vibrate and reflects the sound waves that strike it. The heavier the pane is, the higher the sound insulation value is.
- Pane configuration: the more asymmetric the thickness of the outer and inner pane of glass is, the higher the sound insulation value will be
- Distance between panes: the wider this is the higher the sound insulation value will be. However, if this is too wide it adversely affects the thermal insulation performance.

In addition, Weru puts the effect of pane rigidity on the performance of the window to good use (the more resilient a component is, the higher the sound insulation value will be) and uses laminated glass with sound insulation film. By using a resilient connection between the two individual panes the combination of a high pane mass with low flexural rigidity can be achieved. This significantly improves the sound insulation performance in the lower and upper frequency range.

The most important factors influencing the acoustic protection properties of windows are:

- The acoustic quality of window frames and sash frames
- The seal between the window frame and the sash frame
- The glazing
- The seal between the window frame and the masonry, i.e. the connection between the window and the structure

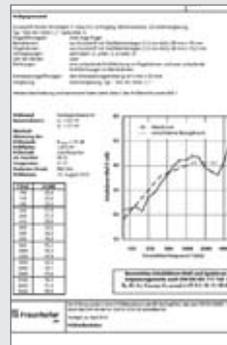
However, please note: If too much sound insulation is used, the noise in the interior may be perceived as unpleasant – consult your Weru specialist.

The difference 10 dB makes ...

If the noise level is reduced arithmetically by 10 dB, we perceive this as a 50% reduction in noise. Conversely, when the noise level is increased by 10 dB, we perceive this as twice the noise.

THE RIGHT GLAZING SYSTEM FOR EVERY SITUATION

You can select a Weru glazing system from this table in order to achieve a pleasant noise level inside the room, depending on the external road or traffic noise.



Municipal street, urban street, residential street and residential trunk road, approx. 200 cars/h	Municipal street, urban street, main thoroughfares, approx. 600 cars/h	Federal trunk road, state road, county road and municipal street outside built-up areas, approx. 1500 cars/h	Motorway and motorway slip road, approx. 4000 cars/h	Sound insulation Overall window $R_{W,P}$	Sound insulation Glazing $R_{W,P}$	Glass configuration	Glazing
20 m	90 m	300 m	700 m	35 dB	33 dB	4/12/4/12/4	Weru-KlimaTherm
7 m	45 m	160 m	300 m	38 dB	36 dB	6/12/4/12/4	Weru-KlimaTherm Phon
2 m	26 m	120 m	230 m	39 dB	38 dB	10/12/4/12/4	Weru-KlimaTherm Extra Phon
–	15 m	70 m	135 m	43 dB	45 dB	9SF/12/4/12/10	Weru-KlimaTherm Extra Phon SF
–	–	25 m	85 m	44 dB	48 dB	13SF/12/4/12/9SF	Weru-KlimaTherm Extra Phon SF2

Overviews of window systems and their features

Your combination possibilities at a glance

When you are reading this page, there are 3 alternatives. Firstly you have already decided on a window system. Then you will find here in a compact form your additional options and features. Secondly: You have not decided yet but put emphasis on special details. Then this chart will help you in finding the window system that suits you. Third alternative: You normally start reading each good book from the back. Then for once you should start from the very beginning.

Features	Bespoke premium window			Allround window solutions		
	AFINO-tec	AFINO-top	AFINO-art	Castello	Palazzo	SmartLine
Profile system						
Material	GFK/PVC	ALU/PVC	ALU/PVC/GFK	PVC	PVC	PVC
Depth (mm)	86	89	89	70	70	70
Gasket type	MD/AD	MD/AD	MD/AD	AD	AD	AD
Maximum sash size windows (mm)	1600x1700	1500x1550	1300x1700	1500x1400	1500x1400	1500x1400
Maximum sash size balcony door (mm)	1300x2600	1200x2500	1000x2300	1200x2500	1200x2500	1200x2500
Thermal insulation						
U _w -value in W/(m ² K) up to	0,68	0,68	0,84	0,76	0,76	0,83
ThermoPlus profile	■	■	■			
Condense-stop	■	■	■			
Thermal insulation glass U _g = 1.1 W/(m ² K)	●	●		●	●	●
Thermal insulation glass U _g = 0.8 W/(m ² K)	●	●		●	●	●
Thermal insulation glass U _g = 0.7 W/(m ² K)	■	■	●	●	●	●
Thermal insulation glass U _g = 0.6 W/(m ² K)	■	■	■	●	●	●
Thermal insulation glass U _g = 0.5 W/(m ² K)	■	■				
Thermal insulation glass U _g = 0.5 W/(m ² K)	●	●		●	●	●
Thermal insulation glass U _g = 0.4 W/(m ² K)	●	●		●	●	●
Security						
Security hardware WK 1	■	■	■	●	●	●
Security hardware WK 2	■	■	■	●	●	
Security hardware WK 3	●			●	●	
Security hardware RC 1	●	●	●			
Security hardware RC 2	●	●	●			
Security hardware RC 3	●					
Reinforced steel fixing	■	■	■			
Load-bearing capacity hinges (kg)	130	130	130	100	100	100
Child-proof lock	●	●	●	●	●	
Standard handle	●	●	●	●	●	●
Push button handle	●	●	●	●	●	●
Lockable handle	■	■	■	●	●	●
Safety glass one side toughened (ESG)	●	●	●	●	●	●
Safety glass both sides toughened (ESG)	●	●	●	●	●	●
Security glass one side laminated (VSG)	●	●	●	●	●	●
Security glass both sides laminated (VSG)	●	●	●	●	●	●
Monitoring system	●	●	●	●	●	●
Glass break alarm	■	■	■	●	●	●
Anti-lifting device	■	■	■			

For your interest: the AFINO packages on pages 26 f. Here we have already summarised the most important features for more security, more energy efficiency and more ease of use – at attractive package prices. For more questions please contact your local Weru dealer.

Features	Bespoke premium window			Allround window solutions		
	AFINO-tec	AFINO-top	AFINO-art	Castello	Palazzo	SmartLine
Sound insulation glazing						
Sound insulation value 36 dB	●	●	●	●	●	●
Sound insulation value 38 dB	●	●	●	●	●	●
Sound insulation value 45 dB	●	●	●	●	●	●
Sound insulation value 48 dB	●	●	●	●	●	●
Ventilation systems						
Gap vent				●	●	●
Variable tilt width restriction				●	●	
Multi gap vent	●	●	●			
Slam stop	■	■	■			
WeruFresh ventilator	●	●	●	●	●	●
RegelAir	●*	●*	●*	●	●	●
Weru-Air Comfort	■	■	■	●	●	
Safe&Go ventilator	■	■	■			
Safe&Go Automatic	●	●	●			
AeroTherm ventilator	■	■	■			
Colours						
White	●			●	●	●
Woodgrain and solid colours	●			●	●	
RAL painted	●			●	●	
Alu matt textured colours		●	●			
Alu-RAL colours		●	●			
Alu-NCS colours		●	●			
Alutimber colours		●				
Georgian bars						
Within glass spacer	●	●	●	●	●	●
Glass deviding bar	●	●		●	●	●
Surface mounted Georgian bars	●			●		●
Combination options with Georgian bars	●	●		●	●	●

- Package feature Protect
- Package feature Energy
- Package feature Comfort
- Available

Not all window features can be combined with each other. Your local Weru dealer is there to give you advice.

* Only for rebate sealing system with two gaskets

BRAND SERVICE

YOUR PERSONAL DECISION FOR
OUTSTANDING QUALITY AND EXCEPTIONAL
ADVICE



THE LEADING WINDOW BRAND FOR YOUR INDIVIDUAL DEMANDS

When you opt for Weru you opt for the market's leading supplier of PVCu windows in the residential sector. This is to your credit ...and to ours. This is because there are very few window and door manufacturers who can offer you such a comprehensive professional package that satisfies all requirements in every respect. We are making sure today that, by continuously improving and developing our products further, we will also be able to meet your requirements for windows and doors in future.

Experience & Innovation

When you opt for Weru windows and doors, you acquire a product of exceptional durability and also outstanding quality from a well established company with many years of experience. Although our standards are already high, we always strive for more. But what does all this mean for you? Your Weru products always represent state-of-the-art technology for one, yet also take the latest requirements such as thermal insulation and acoustic protection, burglary deterrence, not to mention sophisticated design, into account.

Competence & individuality

Thanks to our exceptional know-how, we can also meet your most exacting personal requirements. Whether it be a particular form, colour or feature for your window and door: we can put countless options at your disposal to turn your own ideas into reality. We build each window and door according to your requirements employing cutting edge technology, and manufactured in the hands of experts. After all, your new windows and doors shouldn't just last for three years, they should last for three decades!



50 YEARS
Weru
PVCu
windows

150 YEARS
Weru building
components

QUALITY
made in
Germany

Weru epitomises expert tailor-made solutions. With more than 150 years experience to date, we manufacture more than 500,000 windows in Germany annually according to the individual requirements of our customers. Of course it goes without saying that these products are RAL-tested and ift-certified.

SERVICE

BY WERU SPECIALIST

WE ARE THERE FOR YOU –
WHEREVER AND WHENEVER YOU NEED US



PROFESSIONAL ADVICE AND COMPREHENSIVE SERVICE AT YOUR WERU SPECIALIST

Weru is the only window and door manufacturer with an exclusive sales network, consisting of 750 carefully selected authorised Weru specialists in Germany and Europe – so you will be sure to find a specialist near you. where you can speak to one of our professional advisors who can tell you more about Weru and the Weru systems. These people will spend time with you and help you make the right decision for your needs and can competently answer all your questions. They will draw up a detailed offer for you, carry out a survey at your house and plan the windows and doors according to your requirements. and will install your new windows and doors several weeks later professionally, quickly and cleanly and won't leave until you are completely satisfied. Your Weru specialist is available at any time to give you aftersales advice.



Competent advice, detailed planning, timely delivery, professional installation and comprehensive service is never far away and is very easy to find using our specialist search at www.weru-uk.com



PROFESSIONAL INSTALLA- TION

YOUR INSTALLATION IN SAFE HANDS



HOW WELL YOUR WINDOWS AND DOORS PERFORM DEPENDS ON HOW WELL THEY ARE INSTALLED

Your new windows can only prove their worth in terms of reduced energy consumption and reduced CO₂ emissions with the accompanying reduction in heating costs and can only provide optimum acoustic protection if they are installed correctly by trained installers. This is why our products are only installed for you by qualified Weru specialists who ensure that building physics principles are strictly observed, sufficient stability and that reliable fixing and sealing materials are used. From planning to professional construction.



Professional installation

Whoever plans your windows also installs them themselves fast, cleanly and professionally employing state-of-the-art technology. This is a fact that ensures exceptional care is taken!





ADDITIONAL WERU- PRODUCTS

FOR EVERYONE WHO WANTS MORE THAN JUST WINDOWS

Find out more about the full Weru range

- PVCu, aluminium and PVCu/aluminium windows
- Roller shutter windows with or without motorisation and insect blind
- Venetian blind windows with motorisation and optional insect blind
- Patio and balcony doors with different opening variants
- Front door systems made of aluminium and PVCu
- Projecting roofs with wide range of roof shapes and colours
- Tectola aluminium system, can be used as patio roof or carport



Doors



Weru aluminium and PVCu doors

Two materials, one thing in common: quality. Irrespective of whether you prefer aluminium or PVCu, the virtually unlimited design freedom you have at your disposal means that you will be sure to find the ideal colours, forms and details for your door. Also with a matching projecting roof if required.

Tectola carports and roofs – perfect protection from all kinds of weather

Nobody is immune from the effects of the weather. But you can protect yourself – and your car – from it. You can't really go wrong with Tectola carports and roofs. This is because Tectola carports and roofs stand out due to their sophisticated design, are convincing due to their high functionality and are appealing because they can be extended more or less infinitely.



Projecting roofs



Roofing systems



Carports

For more detailed information on all Weru quality products, visit www.weru-uk.com or contact your Weru specialist.

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100% colour accuracy cannot be guaranteed due to the printing technology used. We recommend you visit your Weru
specialist who can show you the original colours.
Order no. 10 229 761. Printed on paper made from chlorine-free bleached cellulose. 01/12 **Cover charge: 4,- Euro**

We would welcome the opportunity to meet and advise you in person:

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www.weru-uk.com

weru
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