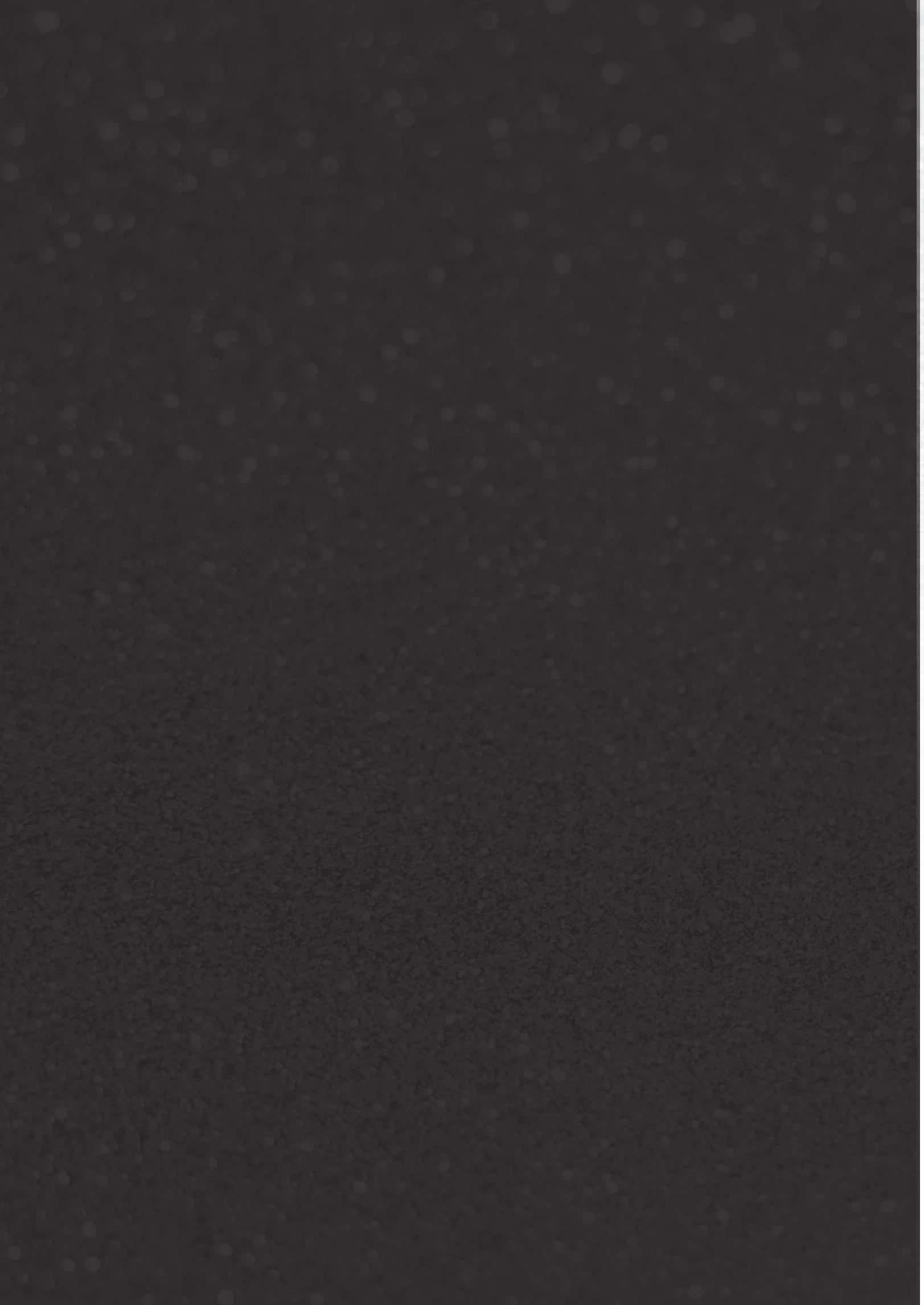


VINYL · WOOD · ALUMINUM  
**WINDOWS · ROLLER SHUTTERS · DOORS · GARAGE DOORS**



**WINDOWS**  
—  
**PATIO  
DOORS**



## IF YOU ARE BROWSING THIS FOLDER, IT IS LIKELY THAT:



- A major investment in joinery awaits you - and you want to spend the money as wisely as possible
- You will be choosing from a wide range of offers, difficult to compare - while looking for the best one
- You will come across a lot of technical information and parameters - which are not easy to follow

---

We understand this situation and want to help you make the best decision possible.



## TIPS

We have created this catalog in such a way as to facilitate the process of selecting and purchasing windows. It contains the most important information and proven advice on what to look out for at each stage.



## KNOWLEDGE

We try to explain the trade terms and expressions in a simple way in the GLOSSARY OF TERMS on p. 94



## INSPIRATIONS

Information about the products used in the projects presented in the catalog can be found in the PHOTOGRAPHY INDEX on page 98.

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## CERTIFICATIONS:



# WHAT AWAITS YOU?

Check how simple the order process is

2

## QUICK VALUATION

- ⊕ based on the information and arrangements provided by you, we prepare an initial product valuation
- ⌚ the valuation is always free
- ⓐ you don't have to leave your home - you can also get the calculation by contacting us online

1

## PRODUCT SELECTION

- ⊕ think about the needs of your home and the expectations of its residents
- ⊕ Use the advice and information on the website or the help of a sales specialist



In order to prepare an offer you need a list of windows, i.e. their specification taking into account their quantity and size - we can use a dimensioned project or the dimensions

3

## PAYMENT

⌚ after the payment is made, the order is transferred to production



# 4

## LEAD TIME

⊕ The order submitted for realization in DAKO factory turns into specific windows. We produce them made to measure, according to specifications included in the order.

⌚ We are able to prepare an order in 2 weeks at minimum.



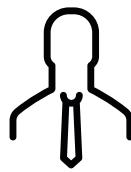
# 5

## DELIVERY

When the windows are ready, we deliver them according to the agreed schedule

### EVERYTHING IS READY

Finally, we provide you with the warranty card for the purchased products



### WE ARE AT YOUR DISPOSAL

DAKO sales advisers provide professional service and advice at every stage of investment

Your home is  
Your place on Earth

Find **WINDOWS**,  
that fit it perfectly





# TIME FOR GOOD DECISIONS!

In order to find solutions that perfectly match your home, we first have to understand your needs.

## WHAT PRODUCTS DO YOU NEED?

Windows



Balcony windows



Patio doors



## WHAT ARE THE WINDOWS TO BE IN TERMS OF FUNCTIONALITY?

Tilt-and-turn

Turn only



Tilt only

Non-opening



Sliding

Sliding with an option of tilting or hoisting



## WHAT MATERIAL ARE THEY TO BE MADE OF?

No matter what material you choose, you can be sure of

- obtaining very good performance parameters
- the durability of the material and structure
- high resistance to weather



### VINYL



**BESTSELLER**  
windows selected by almost  
85% of investors

### WOOD



**TIMELESS CHOICE**  
nature, that never  
goes out of style

### ALUMINUM



**IMPRESSIVE DESIGN**  
large construction possibilities  
ideal for modern projects

## WHAT DEPTH OF CONSTRUCTION SHOULD JOINERY HAVE?

Depending on the selected material, you can choose from various options of profile construction depth - the applied thickness affects the window's performance and is associated with the possibility of using specialized glazing packages. In general, the wider the profile, the greater the number of glazing options and the better the thermal and acoustic parameters of the window.



# WHICH PRODUCTS TO CHOOSE?

When choosing joinery, it is important to take into account the key values which optimization provides real benefits for the house and its inhabitants. What product parameters are important?



Why is it so important?

## Thermal insulation

### ★ SAVINGS

Tight-sealed windows allow you to reduce the amount of energy needed to heat the building and thus reduce your bills.

### ★ COMFORT

Warm interiors provide comfort to residents of the house and make staying there even more pleasant.

### ★ ENVIRONMENTAL CARE

Less energy consumption is a profit not only for our wallet, but also for the planet's ecosystem.



Why should we care about increasing it?

## Security

### ★ SECURE BUILDING

It is not only a building protected by an alarm system, but also equipped with windows and doors of a higher anti-burglary class or, for example, external blinds.

### ★ HOUSEHOLD SAFETY

Functional solutions are protection against potential accidents, which helps to avoid problems and accidents such as breaking the glass or falling out of the window



- ✚ The thermal insulation coefficient is determined by the U Factor [Btu/h·ft<sup>2</sup>·F] or Uw [W/m<sup>2</sup>K] - the lower the value of this coefficient, the better thermal insulation it provides.
- ✚ The degree of burglary protection determines the better thermal insulation it provides level of RC (resistance classes). DAKO products are available in RC2 and RC3 safety classes - more information about their standards and availability can be found at [dakowindows.com](http://dakowindows.com).
- ✚ The use of a specialized glass in windows allows to significantly reduce the noise level and improve the comfort of being inside..
- ✚ Visit your window distributor as early as at the design stage to optimise the illumination of your home.



What does it give?

## SOUND INSULATION

### ★ COMFORT AND PEACE

Staying in quiet interiors undisturbed by the noise of the street or the sounds of airplanes helps to relax and rest, and enables concentration

### ★ FREEDOM

In the comfort of our own home we want to use our personal living space without disturbing the peace of others

### ★ CARING FOR HEALTH

Noise protection has a positive impact on our physiology, learning ability and social behaviour



Why does it matter?

## NATURAL LIGHT

### ★ BETTER MOOD

Natural light has a positive effect on the mood, stimulates and restores the willingness to act, and even supports the fight against the blues and depression

### ★ HEALTH BENEFITS

Sunlight is essential for our body to produce and assimilate vitamin D. It also helps to treat certain skin diseases, speeds up metabolism and has a positive effect on the circulatory system.

### ★ MORE SPACE

A well-lit room not only seems larger, but also much more cozy and comfortable



Find out more about the VALUES OF OUR PRODUCTS at [www.dakowindows.com](http://www.dakowindows.com)



# Everything your HOME needs!

---

Safe, durable windows that provide  
a proper amount of light



WINDOWS  
—  
VINYL



## TRIPLE-GLAZED PACKAGE

Triple-glazed argon filling



## THERMAL INSULATION

A combination of innovative solutions with full functionality, guaranteeing excellent performance and very good thermal and acoustic insulation.



TOP SERIES

Series  
**DPQ-82**

Warm dimension of innovation.



- **FUNCTIONALITY AND DURABILITY**  
guaranteed to the use of the best raw materials
- Acoustic insulation that gives **PEACE AND COMFORT** to the household
- **MAXIMUM SAFETY**  
with a clip and anti-burglary hatches?

BESTSELLER

# Series DPQ-76

New standard!  
Optimal performance parameters  
in accordance with requirements.

- + **FAVORABLE THERMAL INSULATION PROPERTIES** in accordance with building requirements
- + Approved quality with **A GUARANTEE OF PEACE OF MIND**
- + The perfect balance of **QUALITY AND PRICE**



## FITTING

Solution with microventilation, four-stage tilt mechanism, dual-function element and anti-burglary catch



## HANDLE

Universal design of the 1006 model



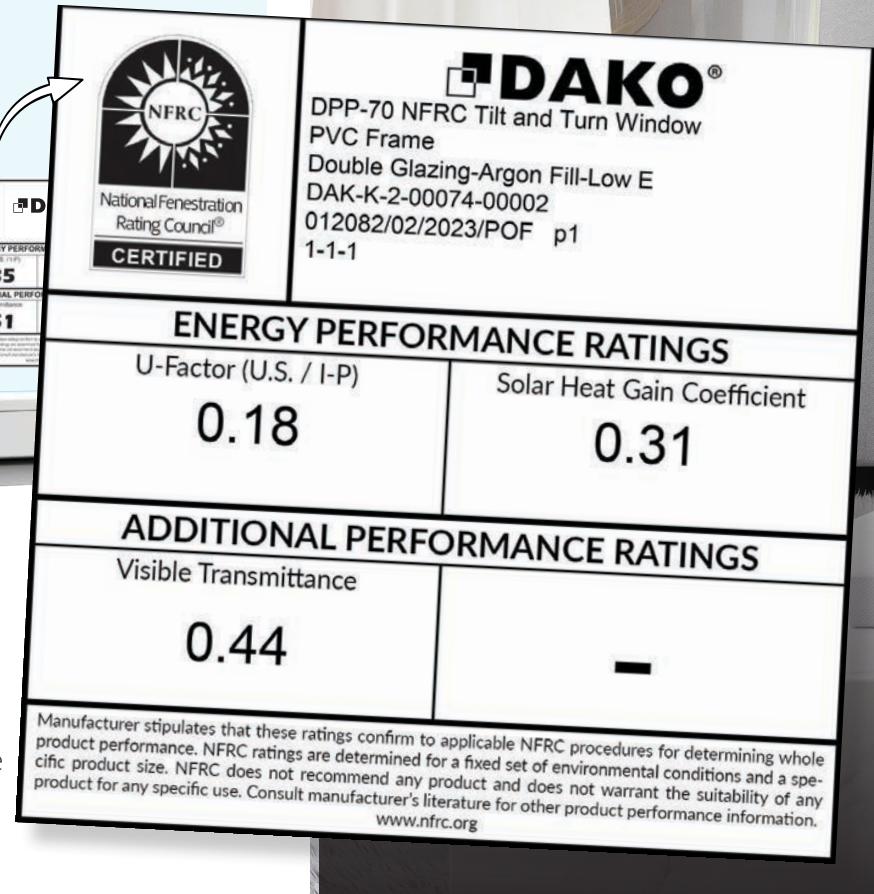
## ATTENTION TO DETAILS AND FINISHES

The high quality of the warm 5-chamber class A profile, energy-efficient double-glazing package with argon and functional hardware with microventilation and a four-stage tilt make the DPP-70 windows a frequent choice of investors looking for proven solutions in the economic variant.



## NFRC CERTIFICATE FOR DPP 70 SERIES

Issued by Keystone Certifications, Inc., which is a recognized research entity on the American market, associating all of the most important manufacturers of joinery.



APPROVED QUALITY

# Series DPP-70

A warm classic.

- **OPTIMAL THERMAL INSULATION** for warm interiors
- **RICHLY EQUIPPED** fitting with microventilation possibility
- High-quality A class profile for **QUALITY AND DURABILITY**
- Proven solution at **FAVORABLE PRICE**

# SERIES OVERVIEW - technical information

## DPQ-82SERIES



U Factor =0,14\* Btu/h·ft<sup>2</sup>·F

$U_w$ =0,77\* W/m<sup>2</sup>K

- 7-chamber A class profile, 3 4/16in (82 mm) thick
- Steel within the frame
- Three seals: two edge seals retracted from elastomer EPDM, inner thermoweldable with TPE

\*Glass 4/18/4/18/4. gas: argon, warm edge spacer, window size 48 7/16in x 58 4/16in (1230mm x 1480mm)

## DPQ-82SERIES-thermoSecure



U Factor =0,13\* Btu/h·ft<sup>2</sup>·F

$U_w$ =0,75\* W/m<sup>2</sup>K

- 7-chamber class A profile, 3 4/16in (82 mm) thick, and solid steel in the frame
- Three seals: two edge seals retracted from elastomer EPDM, inner thermoweldable with TPE
- 2 thermal insulation inserts in the frame and sash
- ECLAZ glass with a warm edge spacer Swissspacer Ultimate
- SecuForte safety handle with double-locking catch in the tilt-and-turn sash

\*Glass 4/18/4/18/4 ECLAZ. gas: argon, warm edge spacer, window size 48 7/16in x 58 4/16in (1230mm x 1480mm)

### The series is also available with an aluminum cladding

- Dimensions for a single sash tilt-and-turn window: Max. width 59 1/16in (1500 mm), max. height 101 3/8in (2575mm)
- Maximum sash area: 24 1/4ft<sup>2</sup> (2,25m<sup>2</sup>)

## DPQ-76SERIES



- 5-chamber class A profile, 3in thick (76 mm)
- Steel within the frame
- Three seals: two edge seals retracted from elastomer EPDM, inner thermo-weldable with TPE
- Dimensions for a single sash tilt-and-turn window: Max. width 59 1/16in (1500 mm), max. height 97 7/16in (2475 mm)
- Maximum sash area 24 1/4ft<sup>2</sup> (2.25m<sup>2</sup>)

\*Glass: 4/14/4/14/4, gas: argon, warm edge spacer, window size: 48 7/16in x 58 4/16in (1230 mm x 1480 mm)

## DPP-70SERIES



- 5-chamber class A profile, 2 3/4in (70 mm) thick
- Steel within the frame
- Two EPDM elastomer retractable seals
- Dimensions for a single sash tilt-and-turn window: Max. width 59 1/16in (1500 mm), max. height 101 3/8in (2575mm)
- Maximum sash area 24 1/4ft<sup>2</sup> (2.25m<sup>2</sup>)

\*Glass: 4/14/4/14/4, gas: argon, warm edge spacer, window size: 48 7/16in x 58 4/16in (1230 mm x 1480 mm)

# SERIES OVERVIEW - technical information

## DPP-70 LumiaLine



U Factor =0,17\* Btu/h·ft<sup>2</sup>·F

U<sub>w</sub> =0,96\* W/m<sup>2</sup>K

- 5-chamber A class profile, 2 3/4 in (70 mm) thick
- Steel within the frame
- Dimensions for a single sash tilt-and-turn window:  
Max. width 47 1/4 in (1200 mm), 98 3/8 in (2500 mm)
- Maximum sash area 23 9/16 ft<sup>2</sup> (2.19m<sup>2</sup>)

\*Glass: 4/14/4/14/4, gas: argon, warm edge spacer,  
window size: 48 7/16in x 58 4/16in (1230mm x 1480mm)

## DPP-70 R65 SERIES



U Factor =0,23\* Btu/h·ft<sup>2</sup>·F

U<sub>w</sub> =1,3\* W/m<sup>2</sup>K

- 5-chamber A class profile, 2 3/4 in (70 mm) thick
- Renovation sash 2 9/16in (65 mm), can be undercut to (7/16in) 10 mm
- Dimensions for a single sash tilt-and-turn window: Max. width 57 1/16 in (1450mm), max. height 97 1/4 in (2470 mm)
- Maximum sash area 24 1/4 ft<sup>2</sup> (2.25 m<sup>2</sup>)

\*Glass: 4/16/4, gas: argon, warm edge spacer,  
window size: 48 7/16in x 58 4/16in (1230mm x 1480mm)

## DPQ-82 R65 SERIES



U Factor =0,15\* Btu/h·ft<sup>2</sup>·F

U<sub>w</sub>=0,83\* W/m<sup>2</sup>K



- 7-chamber A class profile, 3 4/16in (82 mm) thick
- Renovation sash 2 9/16in (65 mm), can be undercut to 0
- Dimensions for a single sash tilt-and-turn window:  
Max. width 57 4/16in (1455mm), max. height 97 1/4in (2470mm)
- Maximum sash area 24 1/4ft<sup>2</sup> (2.25m<sup>2</sup>)

## WHY TO CHOOSE THE RENOVATION WINDOW SERIES?

- The old frame is preserved and used as a support frame.
- The assembly takes place without interfering with the building's facade.
- The profiles cover the joints from the inside and outside
- The joinery assembly time is short, which allows you to enjoy the house without the hassle of renovation
- Optimization of the amount of light in the window

\*Glass: 4/18/4/18/4, gas: argon, warm edge spacer, window size: 48 7/16in x 58 4/16in (1230mm x 1480mm)

A photograph of a modern interior room. The ceiling is made of light-colored wooden beams. There are two large windows with dark frames, one on the left and one on the right, both showing a view of green trees and a grassy field outside. In the foreground, there is a wooden desk with a chair. On the desk, there is a telephone, a small globe, and some papers. To the right of the desk, there is a sofa with a small table in front of it. On the right side of the image, there is a wooden shelf with various items on it, including books, a small plant, and some decorative objects. The overall style is modern and minimalist.

# Nature closer to home

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Timeless solutions for followers  
of classics and eco choices.



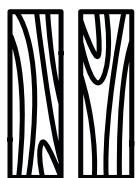
WINDOWS  
—  
WOODEN

# How to find A WOODEN WINDOW THAT PERFECTLY fits your needs?

---

Wood has been used in construction for centuries. It is an energy-efficient and durable raw material: it guarantees the longevity of products and ensures their high quality, which will bring the satisfaction to many generations.

Looking for a solution that will work best for our investment, it is worth taking into account three issues that significantly affect the aesthetics, properties and cost of the joinery.



## Durability and properties **WOOD TYPES**

When creating wood joinery, we only choose carefully selected types of wood, offering our customers materials, and thus products of the highest quality. The wood which is the basis of the structure also influences the final appearance in terms of color saturation or grain pattern.

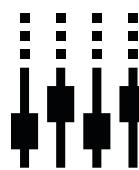
At DAKO we finish wood joinery with covering or azure varnish, from the following wood species: pine, meranti.



## Window appearance **PROFILE SHAPE**

The appearance and character of a wooden window is determined primarily by the form of profile finishing and the shape and milling of glazing beads. At DAKO we offer several stylistic variants:

- DDF series with a classic, simple form of finish.
- Products with a rustic, stylish look of the DDR series.
- Modern and extremely durable combinations of wood and aluminum in two variants: DDA series windows (permanently joining elements of wood and aluminum in the profile construction) in and DDF-AL series (profile with aluminum overlay).



## Performance parameters and price **PROFILE THICKNESS**

The width of the profile from which the joinery will be made has a significant impact on the properties of the entire window and the parameters it offers in terms of thermal insulation or acoustic properties. The thickness of the profile also determines the amount of material needed for its production, which significantly affects the final price of the product. In our offer, the joinery is made in three variants of profile thickness: 68 mm, 78 mm and 92 mm.



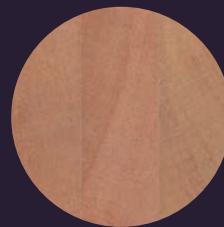
# WOOD ESSENCE

## species available



### SOLID PINE

Proven in the production of joinery, traditionally used for making windows. It provides products with very good mechanical properties and high durability. It has a characteristic drawing of coniferous wood. A great advantage of pine is the possibility of obtaining a very favorable price in relation to product quality.



### MERANTI

Precious wood from Asia, with excellent technological properties. Used as a raw material, it increases the prestige of finished products. It is distinguished by an exotic grain pattern unusual among native wood species, which is one of the main reasons for its popularity.



### COMBINED PINE

Combined squared timber retains the functional qualities of the wood it was made of and has a characteristic image of coniferous wood. It is characterized by very good rigidity and resistance to bending (warping). The use of combined squared timber results in an exceptionally attractive price of products.

### PEFC

DAKO woodwork has an ecological PEFC certificate recognized around the world, which allows us to sell ecological wood products that come from sustainably managed forests.

BESTSELLER

# Series DDF-78

Optimal combination of  
aesthetic values  
and functional parameters.

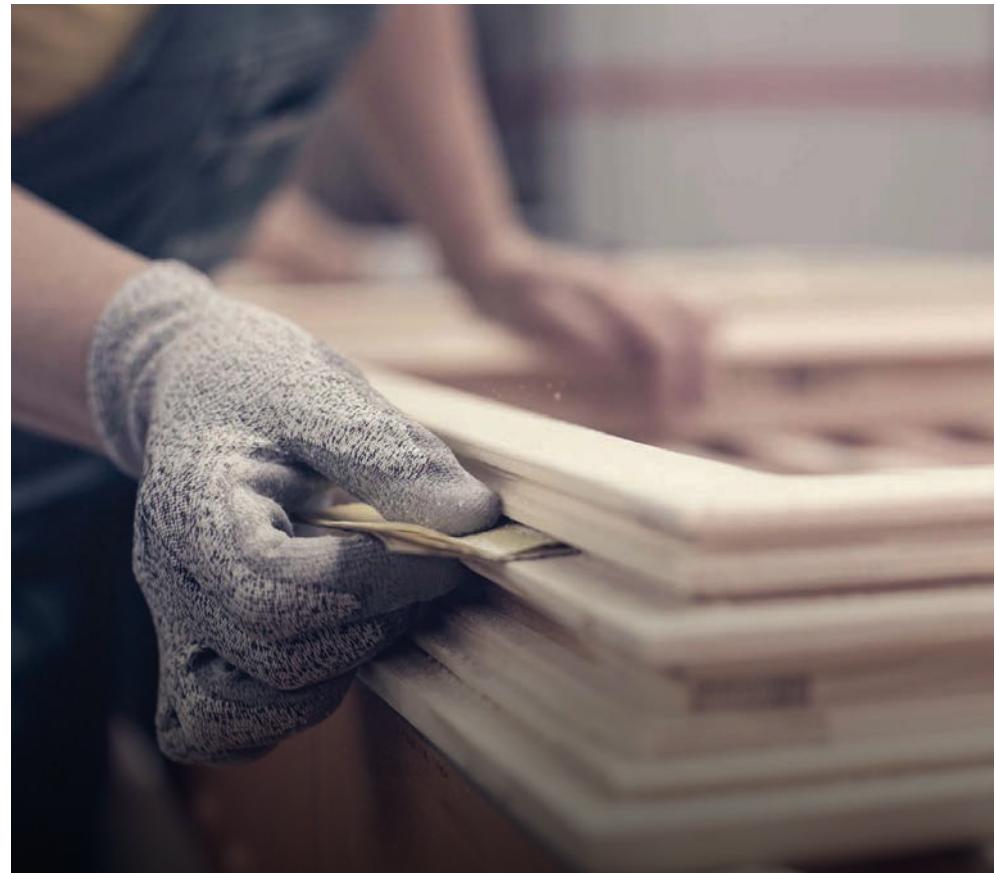
- + **THE NOBLE LOOK OF NATURAL WOOD**  
of quality in the most beautiful,  
modern version
- + **WINDOW FINISH WITH A MINIMALISTIC  
FORM**
- + **OPTIMAL PARAMETERS**  
of thermal and acoustic insulation





## UNIVERSAL APPEARANCE

The simple form of profile finishing makes the windows of this series fit perfectly into both classic and more modern interiors.



## HAND-MADE

The manual refinement of the construction guarantees perfect smoothness and makes the wood look perfect after the varnish finishing finish.



## CLASSIC SOLUTIONS for DDF wooden window SERIES



- **WINDOW FINISH** with a modern, simple form
- **EXCELLENT** thermal and acoustic insulation
- **ULTIMATE COMFORT** of use

---

The series is available in three different variants of profile thickness: **DDF-68 | DDF-78 | DDF-92**



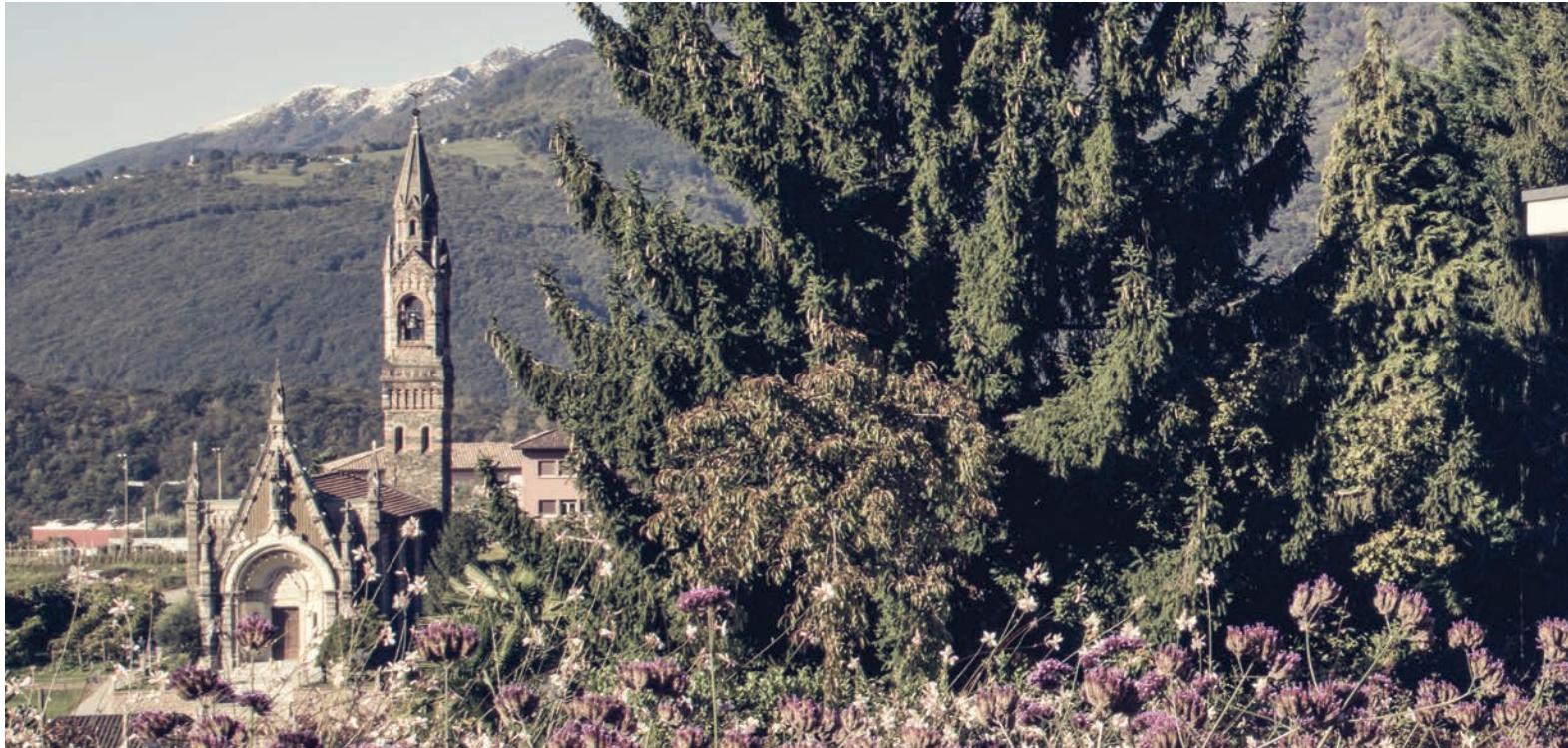
## RUSTIC CHARM of DDR wooden windows SERIES



- Unique, stylized, **RUSTIC FINISH** shape
- **DECORATIVE MILLING** of external edges of sashes, frames and glazing beads emphasizing the character of stylish interiors
- **VERY GOOD** thermal and acoustic insulation and comfort of use

---

The series is available in three different variants of profile thickness: **DDR-68 | DDR-78 | DDR-92**



## ALUMINUM CLADDING in combination with DDF SERIES wooden windows



- + **ELEGANT BEAUTY** of wood enriched with aluminum cladding
- + **RICH STANDARD** of equipment
- + **OPTIMAL THERMAL** insulation parameters
- + **WIDE RANGE OF POSSIBILITIES** of shaping the windows appearance
- + **PROTECTION** against weather conditions

---

The series is available in three profile thickness variants: **DDF-68 AL | DDF-78 AL | DDF-92 AL**



## DDA SERIES WOODEN-ALUMINUM WINDOWS in 8 different finishes



- + **THE HIGHEST QUALITY** due to the combination of carefully selected wood with the use of aluminum profiles
- + **EXCELLENT THERMAL** insulation parameters
- + **INCREASED PROTECTION** against the adverse effects of weather conditions
- + **NO GLAZING BEAD** due to the use of innovative, dry glazing (with the glass embedded on the seals)

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Series available on profile:  
**DDA-78**

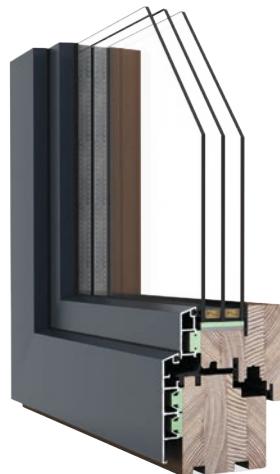


**WOODEN-ALUMINUM WINDOWS**  
**DDA-78 SERIES**

Possibility to choose from as many as **8 SHAPES** of aluminum profile finishing on the outside



Classic



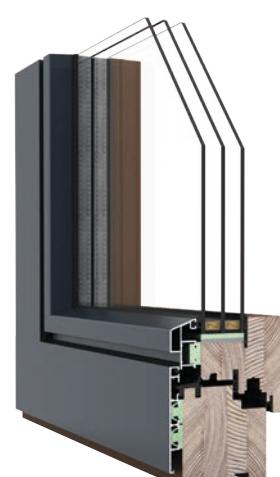
Classic 0.5



Classic Thermo



Integral



Linear



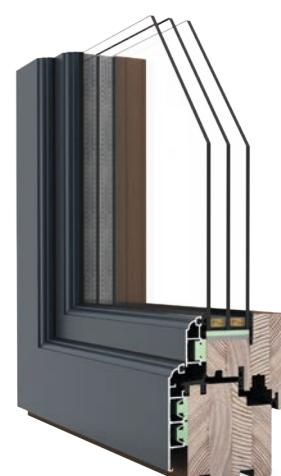
Softline



Quadrat



Quadrat FB



Retro

# SERIES OVERVIEW - technical information

<b>INSTALLATION DEPTH</b>	Profile 2 11/16in (68 mm) 	Profile 3 1/16in (78 mm) 
<b>PRODUCT FEATURES</b>	<p>THE IDEAL SOLUTION FOR INVESTMENTS AND MULTI-FAMILY HOUSING</p> <ul style="list-style-type: none"> <li>• Attractive price</li> <li>• Good thermal and acoustic insulation</li> </ul> 	<p>THE BEST CHOICE FOR DETACHED HOUSES</p> <ul style="list-style-type: none"> <li>• High thermal and acoustic insulation</li> <li>• Optimal performance parameters</li> <li>• Durability and comfort of use</li> </ul> 
<b>WOOD SPECIES</b>	PINE, MERANTI	PINE, MERANTI
<b>SERIES AVAILABLE</b>	<ul style="list-style-type: none"> <li>• DDF - 68</li> <li>• DDR - 68</li> <li>• DDF - 68 AL (aluminum cladding)</li> </ul>	<ul style="list-style-type: none"> <li>• DDF - 78</li> <li>• DDR - 78</li> <li>• DDF - 78 AL (aluminum cladding)</li> </ul>
	<p>THE COMBINATION OF WOOD AND ALUMINUM increases the durability of finish, it allows almost any design of the facade aesthetics</p>	
<b>U FACTOR VALUE (<math>U_w</math>)</b>	0.21 Btu/h·ft <sup>2</sup> ·F (1,2 W/m <sup>2</sup> K) glass: 4/16/4; gas: argon; warm edge spacer; window size: 48 7/16in x 58 4/16in (1230 mm x 1480 mm)	0.16 Btu/h·ft <sup>2</sup> ·F (0,89 W/m <sup>2</sup> K) 4/14/4/14/4; gas: argon, warm edge spacer; window size: 48 7/16in x 58 4/16in (1230 mm x 1480 mm)
<b>MAXIMUM DIMENSIONS</b>	<ul style="list-style-type: none"> <li>• Dimensions for a single sash tilt-and-turn window: Max. width 66 14/16in (1700 mm), Max. height 102 5/16in (2600 mm)</li> </ul>	
<b>STANDARD EQUIPMENT</b>	<ul style="list-style-type: none"> <li>• Triple glazing package (double glazing package in 68 series)</li> <li>• argon filling</li> </ul>	

Profile 3 1/16in (78 mm)  
(wood-aluminum)



Profile 3 5/8in (92 mm)



#### TOP QUALITY WOODEN WINDOW WITH AN ALUMINUM PROFILE

- Guarantee of resistance to weather conditions and mechanical damage
- Possibility to choose from 8 shapes of aluminum profiles from the outside
- Innovative dry glazing (glazing embedded on seals)



#### JOINERY FOR SPECIAL TASKS: THE WARMEST WOODEN WINDOWS IN POLAND ACCORDING TO THE LTB RESEARCH

- Maximum thermal and acoustic insulation
- Series awarded with the Gold Quality International Emblem



PINE, MERANTI

PINE, MERANTI

- DDA -78

- DDF - 92
- DDR - 92
- DDF - 92 AL  
(aluminum cladding)

windows by up to 30 years and due to a wide selection of colors, textures and patterns of aluminum

0.13 Btu/h·ft<sup>2</sup>·F (0,75 W/m<sup>2</sup>K)

4/16/4/16/4; gas: argon; warm edge spacer; window size:  
48 7/16in x 58 4/16in (1230 mm x 1480 mm)

0.12\* Btu/h·ft<sup>2</sup>·F (0,65 W/m<sup>2</sup>K)

glass: 4/12/4/12/4/12/4; gas: argon; warm  
edge spacer; window size: 48 7/16in x 58 4/16in (1230 mm x 1480  
mm)

- Maximum sash area 32 4/16 ft<sup>2</sup> (3 m<sup>2</sup>)

- 3 seals on the perimeter
- Standard perimeter fitting



**Dreams  
in a modern  
style?**

---

**Choose prestigious solutions in an  
innovative design.**

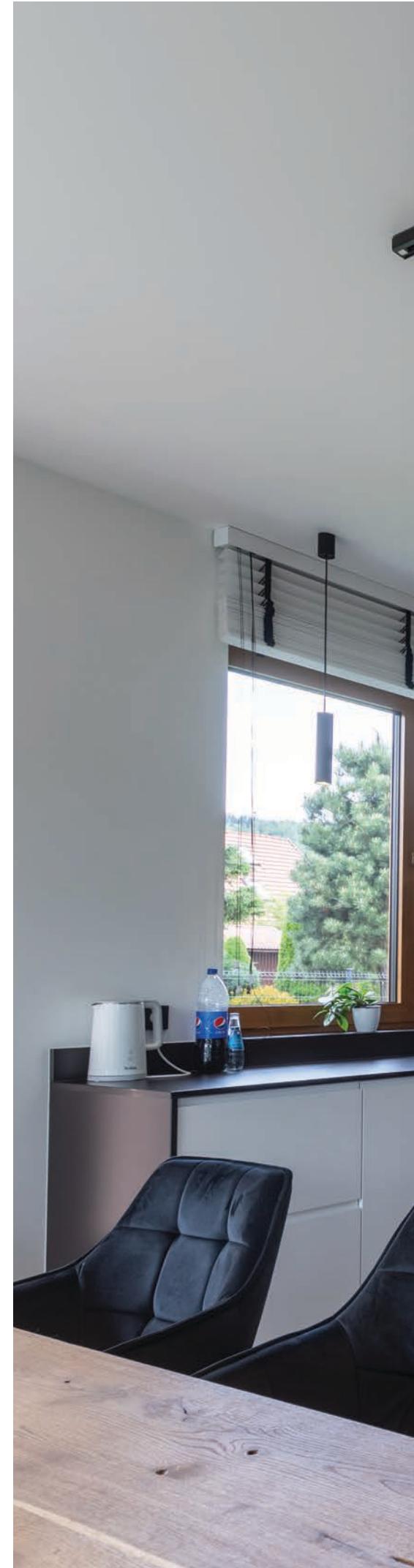
A photograph of a modern, two-story house. The left side of the image shows a large glass door and window unit with a dark wood frame, looking out onto a green lawn and trees. Above this is a balcony with a glass railing and a dark wood frame. The right side of the image shows a white wall with a small, dark, rectangular vent or sensor. A dark, overhanging eaves feature a small, illuminated blue and white decorative light. The house is surrounded by a paved driveway and a lawn with small evergreen trees.

WINDOWS / ALUMINUM

# WINDOWS

---

# Aluminum



## ARE YOU INTERESTED IN AN INNOVATIVE DESIGN?

The series is also available in the corner option Thermo 90°

- **EFFECTIVE WINDOW AESTHETICS** due to the lack of structural profiles in the corner. Connecting the contact of two panes with black glue gives the effect of one line and emphasizes the character of the corner.
- **GREAT CONSTRUCTIONAL POSSIBILITIES** the division of the glazing surface by means of spacers allows for the installation of DA-90 Thermo system windows with different types of opening



Are you looking for an internal system or an unusual option with an invisible sash? Check out other solutions for aluminum windows at [www.dakowindows.com](http://www.dakowindows.com)

THE WARMEST SOLUTION

# Series DA-90 Thermo

The best option for thermal  
and acoustic insulation.

- **EXCELLENT** thermal and acoustic insulation, ideal for passive houses
- **ELEGANT APPEARANCE** due to concealed hinges in standard
- additional **PROTECTION AGAINST BURGLARY** due to the use of 4 anti-burglary locks
- **GUARANTEE OF PEACE** resulting from reliable acoustic insulation

OPTIMAL CHOICE

## Series DA-77

Large possibilities in three  
system variants:  
standard, with concealed sash  
and fire protection

- + **VERY GOOD LEVEL** of thermal insulation
- + possibility of constructing **LARGE-SIZE GLAZING** due to profiles with approved statics
- + The system **IS IDEAL FOR MODERN, HIGH-END PROJECTS.**
- + **POSSIBILITY OF USING SPECIAL GLAZING:** energy-saving, anti-burglary and other
- + **MODERN DESIGN** providing an elegant appearance of the facade also from the outside



## DA-77 SERIES



### OPTION

The series is also available in the corner version DA-77 90°



U Factor = 0,18\* Btu/h·ft<sup>2</sup>·F

U<sub>w\*</sub> = 1,0 W/m<sup>2</sup>K

- 4-chamber profile (Sash: 3 6/16 in (86mm) | Frame: 3 1/16 in (77mm))
- Thermal breaks 1 11/16 in (43mm)
- Two EPDM seals
- Glazing range: 13/16 in to 2 10/16 in (from 21 to 67 mm)
- Dimensions for Tilt-and-turn window: min.: 16 9/16 in x 16 9/16 in (420 mm x 420 mm), Max.: 63 in x 94 8/16 in (1600 mm x 2400 mm)
- Maximum sash area: 32 5/16 ft<sup>2</sup> (3m<sup>2</sup>)

\*Glass 4/18/4/18/4 window size 48 7/16 in x 58 4/16 in (1230 mm x 1480 mm)

# SERIES OVERVIEW - technical information

## DA-77 US SERIES



U Factor = 0,14\* Btu/h·ft<sup>2</sup>·F

$U_w$  = 0,8 W/m<sup>2</sup>K\*

- System with concealed wing of exceptional aesthetics
- 4-chamber profile (Sash: 3 3/16 in (80,8mm) | Frame: 3 1/16 in (77mm))
- Glazing range: 10/16 in to 2 6/16 in (from 15 to 60 mm)
- Tilt and turn sash dimensions: min.: 21 11/16 in x 21 11/16 in (550 mm x 550 mm), Max.: 63 in x 98 7/16 in (1600 mm x 2500 mm)
- Maximum: sash area: 32 5/16 ft<sup>2</sup> (3m<sup>2</sup>) weight: 286,6 lb (130kg) (330,7 lb (150kg))

\*Glass 4/18/4/18/4, window size 48 7/16 in x 58 4/16 in (1230 mm x 1480 mm)

## DA-77 C SERIES



U Factor = 0,16\* Btu/h·ft<sup>2</sup>·F

$U_w$  = 0,9 W/m<sup>2</sup>K\*

- The system of windows opened outwards with thermal partition
- 4-chamber profile (Sash: 3 6/16 in (86mm) | Frame: 3 1/16 in (77mm))
- Glazing range: 14/16 in to 2 6/16 in (from 22 to 60 mm)
- Tilt-and-turn sash dimensions: min.: 21 11/16 in x 21 11/16 in (550 mm x 550 mm), Max.: 55 1/8 in x 98 7/16 in (1400 mm x 2500 mm)
- Maximum: sash area: 32 5/16 ft<sup>2</sup> (3m<sup>2</sup>) weight: 286,6 lb (130kg) (396 lb (180kg))

$U_w$  of the window size 78 12/16 in x 39 3/8 in (2000 mm x 1100 mm) with 2-chamber glass 4/18/4/18/4, with warm distance frame and fire glass in EI30 class

## DA-90THERMOSERIES

U Factor =0,14\* Btu/h·ft<sup>2</sup>·FU<sub>w\*</sub> = 0,8 W/m<sup>2</sup>K

- Glazing range: 15/16 in to 3 4/16 in (from 23 to 82 mm)
- Dimensions for Tilt-and-turn window: min.: 20 8/16in x 16 9/16in (520 mm x 420 mm), Max.: 66 14/16in x 110 3/16in (1700 mm x 2800 mm)
- Maximum sash area: 32 4/16ft<sup>2</sup> (3m<sup>2</sup>)
- Max. sash weight: 330,7 lb (150kg)
- 3-chamber profile - Frame: 3 9/16in (90 mm)

- Thermal breaks 1 8/16in (45 mm)
- Insulation insert in the middle chamber
- Three EPDM seals in the opening windows

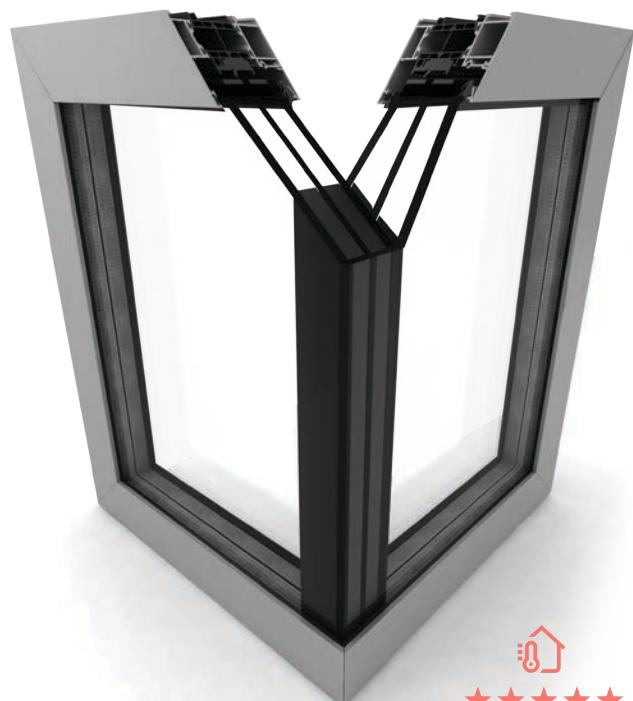
U<sub>w</sub> of the reference window with a dimension of 1230 mm x 1480 mm with standard glass 4x18x4x18x4 Ug=0,5 W/m<sup>2</sup>K

U<sub>w</sub> of reference window with dimensions: 2 x 48 7/16in x 58 4/16in (2x 1230 mm x 1480 mm) with standard glass 4X18x4x18x4



Are you looking for an internal system or an unusual option with an concealed sash?  
Check out other solutions for aluminum windows on [www.dakowindows.com](http://www.dakowindows.com)

## DA-90THERMO 90° SERIES

U Factor =0,14\* Btu/h·ft<sup>2</sup>·FU<sub>w\*</sub> = 0,8 W/m<sup>2</sup>K

- Glazing range: 1 4/16 in to 2 13/16 in (from 32 to 72 mm)
- Dimensions: min.: 22 1/16in x 22 1/16in x 22 1/16in (560 mm x 560 mm x 560 mm),
- Max.: 94 7/16in x 118 1/16in x 118 1/16in (2400 mm x 3000 mm x 3000 mm)

- Thermal breaks 1 8/16in (45 mm)
- Insulation insert in the middle chamber
- Three EPDM seals in the opening windows



# Small things that make a big difference

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The most important thing is to provide you with the colors of windows and extras suitable to your taste.

**OPTIONS**  
—  
accessories

# HANDLE

## The one you need



For details on  
the availability of  
colors in individual  
handle models, see  
[dakowindows.com](http://dakowindows.com).

## SELECTED HANDLE MODELS



1006



1007



1009



1033

Hoppe SecurForte  
HamburgHoppe Secustik  
New YorkHoppe Secustik  
Luksemburg1006D  
with a button1006A  
with a keyHoppe Secustik  
Luksemburg with a key

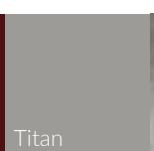
## HANDLE COLORS



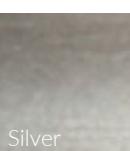
White



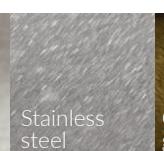
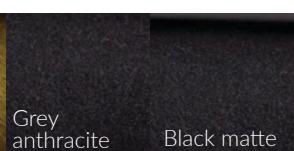
Brown



Titan



Silver

Stainless  
steelOld  
goldGrey  
anthracite

Black matte

# FUNCTIONALITY AND SECURITY IN A PACKAGE

## SAMPLE SELECTION



## DOUBLE-GLAZING PACKAGE

### GLAZING PACKAGE SINGLE-CHAMBER:

2 glass panes, a spacer and a argon pressed between the panes

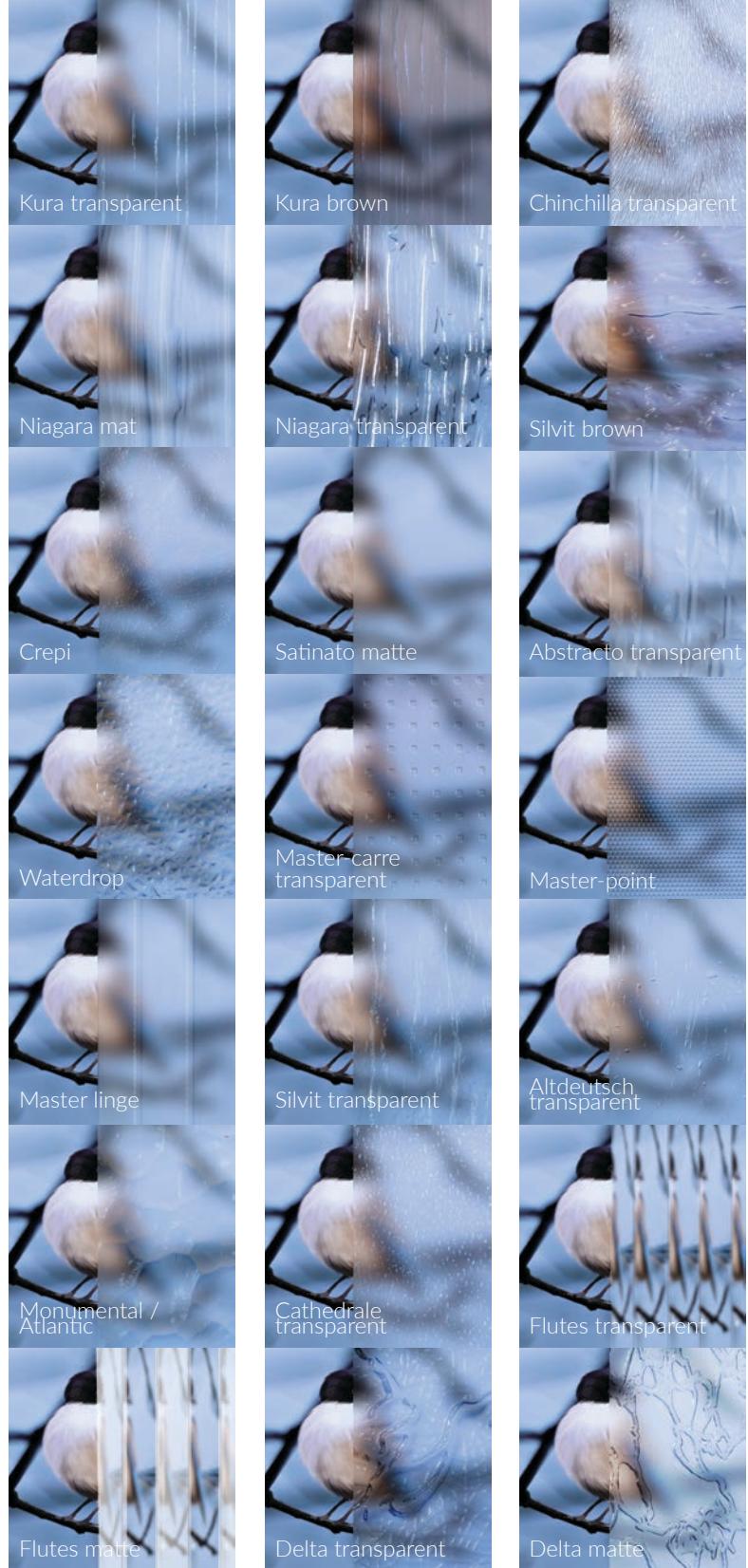


## TRIPLE GLAZING PACKAGE

### GLAZING PACKAGE TWO-CHAMBER:

3 glass panes, spacer frames and filling the space between the glass with argon

## DECORATIVE GLASS





Glazing is a very important element of windows which affects, among other things, their thermal efficiency and the amount of solar energy entering the interior. A larger number of chambers in the glazing package, a lower coefficient in the glass and argon in the inter-pane space improve the thermal insulation.





# DIVIDED LITE stylish window look

Pane bars are a perfect complement to the windows. They can be both a window decoration referring to the stylish architecture and interiors, as well as the crowning of a modern window construction. They give interiors a special atmosphere and give the buildings facade a unique character.

## INTERNAL PANE BARS

- placed in the inter-pane space during the production process of glazing packages (do not make cleaning windows difficult!)

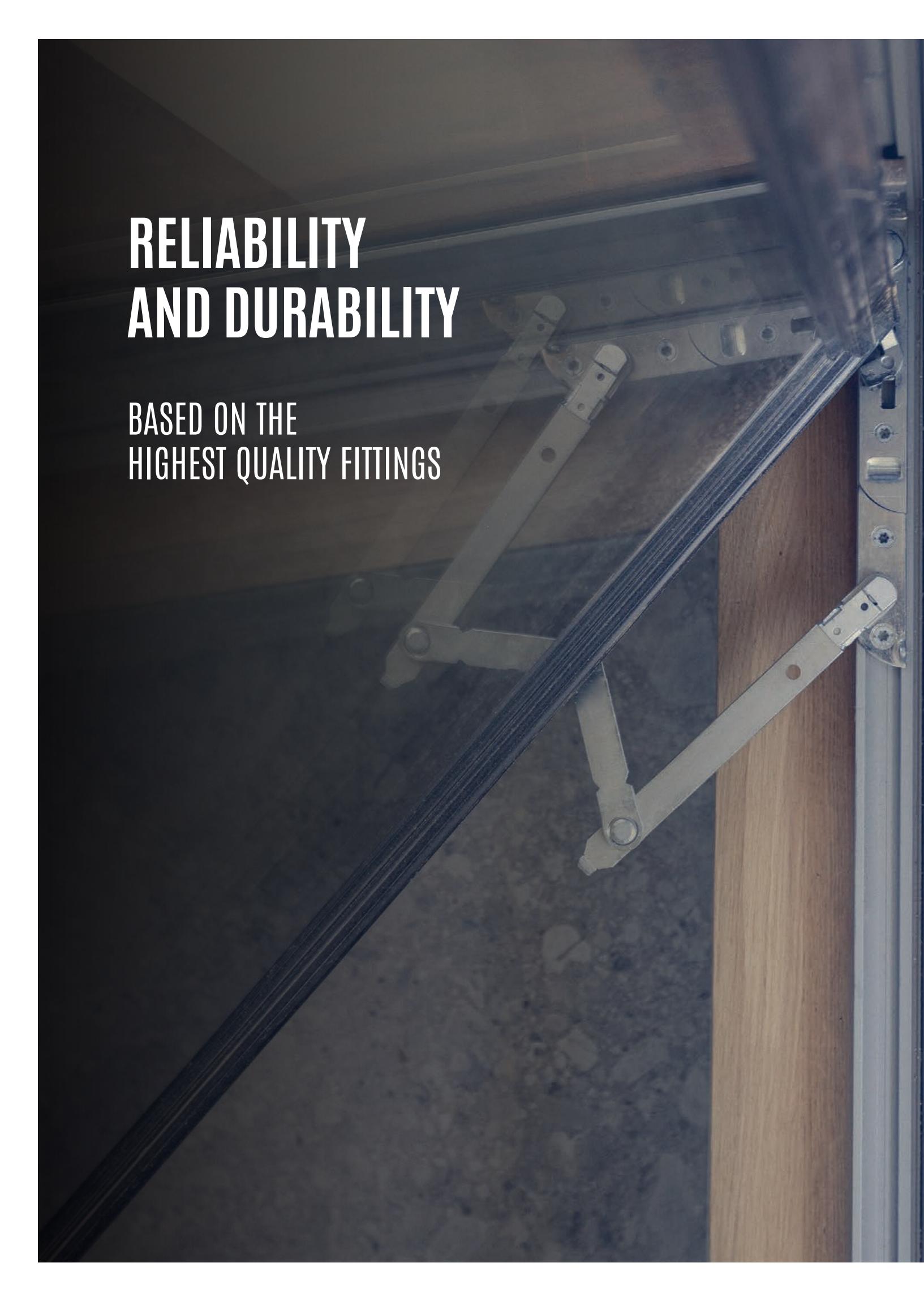
## VIENNA PANE BARS

- glued directly to the surface of the glass (they divide the glass into smaller, limited areas, which means that cleaning the windows may take more time)



## Check which pane bars fit your windows

The thickness and color of the pane bars depend on the material from which the windows are made - ask your salon advisor about the availability of options in the selected system.



# RELIABILITY AND DURABILITY

BASED ON THE  
HIGHEST QUALITY FITTINGS



DAKO windows owe their functionality to high quality components, in particular solid fitting solutions. It is due to these elements that smooth operation of even large windows is possible without any effort. The fittings also guarantee the proper tightness of the windows and increase the level of security due to the use of anti-burglary elements. Discover the most popular fittings functions.

### MICROVENTILATION

It allows to gently unseal the window and improve air exchange. The slot airing system allows the frame to be set aside by several mm, so we can air the room without cooling it.

### ENHANCED AESTHETICS

Due to the use of CONCEALED HINGES, when the sash is closed the hinges are invisible, which gives windows an exceptionally elegant look and makes it easier to keep clean.

### INCREASED SECURITY

The STANDARD PLUS fitting is equipped with two anti-burglary catches in each sash. In Tilt and Turn sashes one of the catches is a unique anti-burglary lock with double which is available at DAKO only. Additionally, the fitting features a handle rotation lock with a lifter.

The FIRST TILT option, in which positioning the handle horizontally tilts the window, and full opening requires setting the handle in a vertical position. In combination with the TBT handle it allows to limit the possibility of opening the sash. Without using the key, they can only be tilted, which eliminates the risk of falling out.

A large glass window looks out onto a garden. In the foreground, a large palm plant is visible. Outside, a grey sofa is positioned on a paved terrace, facing a green lawn and a line of houses in the distance. The sky is clear and blue.

**Open up to  
beauty,  
open up to  
space**



PATIO DOORS

PATIO  
DOORS

# Find your exit to the patio! Find out which solution best suits your home.

---

When choosing joinery, one of the tasks will be to connect the interior of the house with the patio, we can choose from several different options such as the so-called balcony doors - but mainly functional options in terms of sliding solutions.

Therefore, we will try to present all their good and bad sides clearly, while also explaining how the different types of doors actually differ.

TILT-AND-TURN DOORS	SLIDING PATIO DOORS			
<b>CLASSIC BALCONY DOOR</b> , with a fixed or a movable post is actually a window with dimensions allowing a free passage	Sliding <b>SKYLINE</b> <b>SLIDELINE</b> <b>HST</b>	Tilt – sliding <b>HKS</b>	Hoist – sliding <b>PAS</b>	<b>FOLDING</b>
The solution is available in the window series presented in the first part of the catalog (p. 14-47)	A detailed description of these solutions and their availability is presented on the following pages (p. 60-81)			



# Why are sliding doors a good choice?

The most important advantages of the solution are:

## ★ AESTHETIC APPEARANCE WITH A MODERN DESIGN

possibility of constructing large, impressive glazings that optically enlarge the interior and an increased glazed area providing greater access to natural sunlight.

## ★ SPACE-SAVING

due to an opening system that does not require additional space inside the room

## ★ FUNCTIONAL TECHNOLOGIES

allowing for lightweight and comfortable operation of patio doors, despite their heavy weight and size

## ★ EXCELLENT PERFORMANCE PARAMETERS

guaranteeing thermal and acoustic insulation at the optimum level for the house

**NEW**

# Patio sliding door with a concealed frame **DA-SkyLine**

Panoramic views with no limits.

- Innovative **CONCEALED FRAME SYSTEM**, built in walls, floor and ceiling
- **NARROW PROFILES** with maximum surface area Glazing - visible width of the door sash connection: 1 in (25mm)
- **IMPRESSIVE DIMENSIONS** and the possibility of constructing sliding doors up to 472 7/16 in (12m) wide and 157 8/16 in high
- **SPECTACULAR, PANORAMIC GLAZING** while maintaining excellent thermal insulation parameters of the structure (U Factor =0,15\* Btu/h·ft<sup>2</sup>·F, U<sub>w</sub> from 0,85\* m<sup>2</sup>K)

\* for doors with sash dimensions of: 81 1/2 in x 135 7/16 in (2070 mm x 3440 mm), Glass 4/18/4/18/4 and a warm edge spacer

## PATIO DOORS



### LUXURIOUS DESIGN

Innovative technology allows to hide the frame in the walls, floor and ceiling allows to obtain a spectacular, panoramic glazing while maintaining excellent thermal insulation parameters of the structure.



### SPECTACULAR GLAZING

The system enables the construction of sliding doors to have impressive dimensions: with almost unlimited width and of up to 157 8/16 in (4 m)! The slim door design gives the impression of lightness despite its large size.



# SkyLine sliding patio doors with a concealed frame - technical information

Opening by sliding it horizontally allows to fully open the movable sash.



MATERIAL	MAX. CONSTRUCTION WIDTH	MAX. CONSTRUCTION HEIGHT	MAX. SASH WIDTH	MAX. SASH AREA
ALUMINUM	No restrictions - the door can be connected to each other and form a uniform glazing sequence	157 1/2in (4 000 mm)	118 1/8in 3 000 mm	129 3/16ft <sup>2</sup> 12 m <sup>2</sup>

OTHER	HANDLES
 option of automatic door control with remote control	 Standard color: joinery color



The table determines the maximum dimension that can be obtained under favorable conditions of installation using a specific construction and profile scheme. Ask your dealer for details of possible door sizes within your chosen solution.

## PATIO DOORS





## LIGHTWEIGHT OPERATING SYSTEM

The solution enables comfortable use of the door, guaranteeing comfortable opening and closing even with large dimensions.



## LOW THRESHOLD

The low threshold construction, thanks to its alignment with the floor and patio plane, makes it much easier to move between the interior of the house and the patio or garden.



# Lift - Sliding patio doors HST

Great opportunities to gain more!  
Space, light, proximity to nature.

- + **MAXIMUM PRESTIGE AND ELEGANCE** guarantee a beautiful appearance
- + **OPTIMAL THERMAL PARAMETERS**
- + **HIGH FUNCTIONALITY** due to the possibility of aligning the threshold with the floor and due to the practical opening by shifting it in line, the system allows you to save additional space inside

NEW

# HST-motion

Even better vinyl patio doors!

**+** **PERFECT LIGHTING**

larger glazing area due to narrow sash profiles

**+** **THERMAL COMFORT**

high level of thermal insulation and a warm vinyl threshold

**+** **SAFETY AND CONVENIENCE**

smooth sash operation, collision-free espagnolette

## PATIO DOORS



### PERFECT LIGHTING

Large glazings in narrow vinyl sash profiles provide a striking appearance and plenty of natural light.



### SAFETY AND AESTHETICS

The hook espagnolette is free of protruding pins on the frame, which ensures collision-free communication as well as an elegant appearance.

# HST patio doors - technical information

Opening by sliding it horizontally allows you to fully open the movable sash.  
Airing is possible by blocking the partially offset moving sash.



MATERIAL	MAX. WIDTH	MAX. HEIGHT	MAX. SASH WIDTH	MAX SASHES AREA	
VINYL	<b>255 14/16in (6 500 mm)</b>	<b>106 4/16in (2 700 mm)</b> white <b>98 6/16in (2 500 mm)</b> other colors	<b>118 1/16in (3 000 mm)</b> white <b>98 6/16in (2 500 mm)</b> other colors	<b>69 15/16ft<sup>2</sup> (6,5 m<sup>2</sup>)</b> white <b>59 3/16ft<sup>2</sup> (5,5 m<sup>2</sup>)</b> other colors	
WOOD	<b>236 3/16in (6 000 mm)</b>	<b>102 5/16in (2 600 mm)</b>	<b>118 1/16in (3 000 mm)</b>	<b>69 15/16ft<sup>2</sup> (6,5 m<sup>2</sup>)</b>	
ALUMINUM	<b>472 7/16in (12 000 mm)</b>	<b>129 14/16in (3 300 mm)</b>	<b>129 14/16in (3 300 mm)</b>	<b>88 12/16ft<sup>2</sup> (8,25 m<sup>2</sup>)</b>	

OTHER	HANDLES
 <p><b>option of automatic door control with remote control</b></p>	 <p><b>The handle is available in the following colors:</b> white (RAL 9016), brown (8019), silver-plated (F1), old gold (F4), titanium (F9), dark grey (RAL 7016), black (RAL 9005) and in various versions: such as: single-sided, double-sided, with a cylinder, with a key etc.</p>
 <p><b>option of automatic door control with remote control</b></p>	 <p><b>The handle is available in the following colors:</b> white (RAL 9016), brown (8019), silver-plated (F1), old gold (F4), titanium (F9), and in various versions: such as: single-sided, double-sided, with a cylinder, with a key etc.</p>
 <p><b>option of automatic door control with remote control for DA-77 HST</b></p>	 <p><b>The handle is available in the following colors:</b> white, black and any RAL and in different versions: e.g. single-sided, double-sided, with a cylinder, with a key etc.</p>



The table determines the maximum dimension that can be obtained under favorable conditions of installation using a specific construction and profile scheme. Ask your dealer for details of possible door sizes within your chosen solution.

NEW

# Flush-sliding patio door **SlideLine**

A smart solution at an attractive price

- + **MAXIMUM LIGHT OUTPUT**  
enlarged glazing area in the fixed part of the door
- + **EASY TO OPERATE**  
flush-slide sash
- + **MODERN DESIGN**  
PVC profiles welded in V-perfect technology
- + **INCREASED ENERGY EFFICIENCY**  
exceptional tightness and structural stability

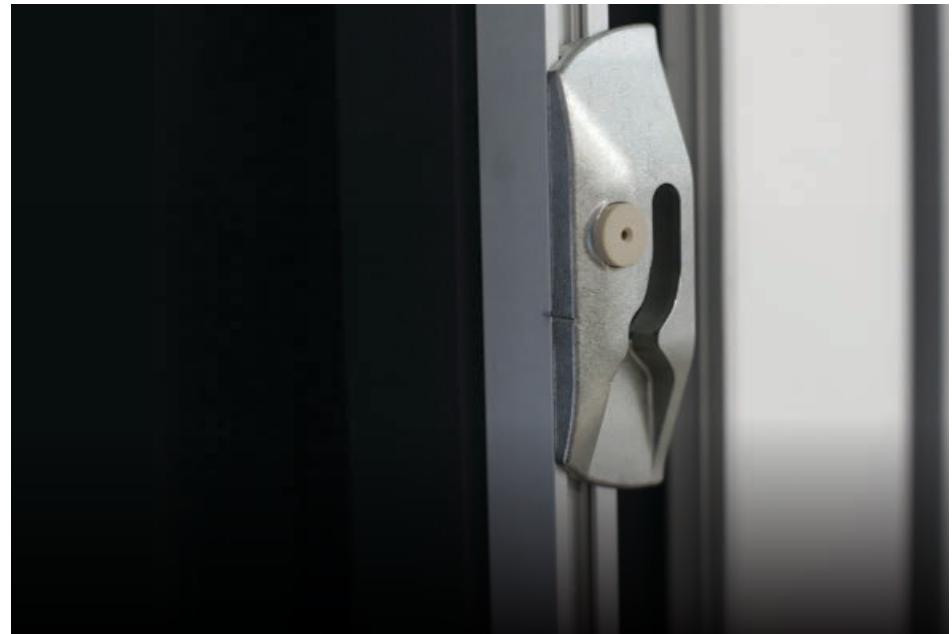


## PATIO DOORS



### ELEGANCY AND MODERNITY

Enlarged glazing area in the fixed part of the door and V-perfect welded profiles provide an elegant and modern design

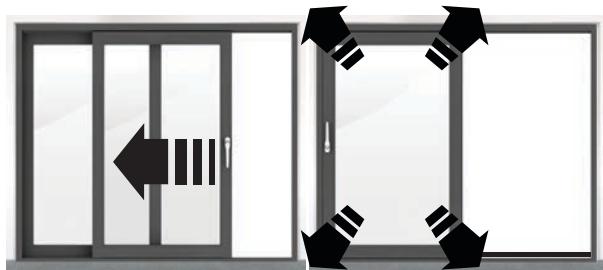


### INCREASED TIGHTNESS

A special hardware system that allows you to adjust the pressure of the door sash, guarantees exceptional security, tightness and stability of the structure

# SlideLine patio doors - technical information

Opening by sliding horizontally allows the movable sash to open fully. The ability to flush the movable sash around its perimeter by several millimeters allows safe ventilating the interior.



MATERIAL	MAX. WIDTH OF THE CONSTRUCTION	MAX. HEIGHT OF THE CONSTRUCTION	MAX. WIDTH OF THE SASH	MAX. SURFACE OF THE SASH	
VINYL	4 000 mm	2 600 mm	1 950 mm	4,4 m <sup>2</sup>	



## HANDLES



**Handle available in colors:** white, bronze, titanium, silver, stainless steel, anthracite gray, black



The table specifies the maximum dimension possible under favorable installation conditions using the specified construction scheme and profile. For details on the possible sizes of doors under the solution of your choice, ask the seller.



# Tilt - sliding patio doors **HKS**

Economical option  
for a good view!

- + the option of tilting the movable sash allows for free rooms ventilation
- + **SIMPLE OPERATION AND USE OF** the system
- + favorable price



## TIILT FUNCTION

Sliding horizontally allows you to fully open the movable sash, and the possibility of tilting the movable sash along the upper edge allows for rooms ventilation.



## FUNCTIONALITY AT A GOOD PRICE

Optimization of production costs determines the high availability of the product also for customers with a more limited budget - so that elegant and fashionable large glazing can be found in any home.

# HKS patio doors - technical information

Opening by sliding it horizontally allows you to fully open the movable sash.  
Airing is possible by tilting the movable sash along the upper edge.



MATERIAL	MAX. WIDTH	MAX. HEIGHT	MAX. SASH WIDTH	MAX. SASH AREA
VINYL	157 7/16in (4 000 mm)	97 10/16in (2 480 mm)	59 1/16in (1 500)	36 4/16ft <sup>2</sup> (3,37 m <sup>2</sup> )
WOOD	118 1/16in (3 000 mm)	97 10/16in (2 480 mm)	58 4/16in (1 480 mm)	36 4/16ft <sup>2</sup> (3,37 m <sup>2</sup> )
ALUMINUM	157 7/16in (4 000 mm)	97 10/16in (2 480 mm)	58 4/16in (1 480 mm)	36 4/16ft <sup>2</sup> (3,37 m <sup>2</sup> )

## HANDLES

HKS	HKS AUTOMATIC
 	<p><b>The handle is available in the following colors:</b> white, brown, silver (F1), brass (F3), old gold (F4), titanium (F9), dark grey (RAL 7016), black (RAL 9005), dark grey (RAL 7016)</p> <p>Handle with a key is available in colors: white, brown, silver (F1), old gold (F4), titanium (F9), dark grey (RAL 7016), black (RAL 9005)</p>

	<p><b>The handle is available in the following colors:</b> available colors: white, brown, silver</p>
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The table determines the maximum dimension that can be obtained under favorable conditions of installation using a specific construction and profile scheme. Ask your dealer for details about the possibilities within your chosen solution.

# Hoist - sliding patio doors **PAS**

Comfortable  
room airing

- **SAFE AND ENERGY-EFFICIENT VENTILATION** with the function of putting the sash away from the frame by a distance of 6 mm
- **COMFORT** regardless of the weather (effective ventilation during rainfall, and a stable position of the sash eliminates the risk of the sash hitting the frame under wind pressure)
- **LIGHT AND QUIET** door operation



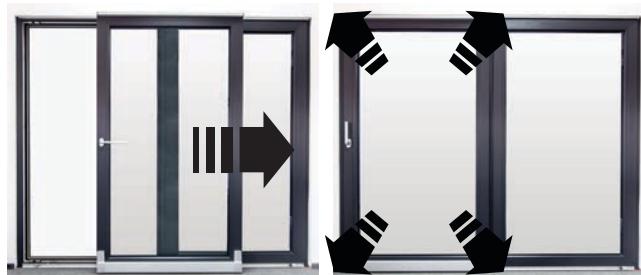
# Folding Door

Modern impressive design

- + **MAXIMUM PASSAGE LIGHT**
- + **THE SASHES FOLD TO THE SIDE EDGES**, and when all sashes are folded, almost the entire door surface is opened
- + **FUNCTIONALITY AND CONVENIENCE** of use
- + **TWO WAYS** of opening the door: outwards and inwards

# PAS patio doors - Technical information

Opening by sliding it horizontally allows you to fully open the movable sash. The possibility of putting the movable sash aside by several mm on the whole perimeter allows for safe ventilation of rooms.



PRODUCT	MATERIAL	MAX. WIDTH	MAX. HEIGHT	MAX. SASH WIDTH	MAX. SASH AREA
PAS	VINYL	157 7/16in (4 000 mm)	97 10/16in (2 480 mm)	59 1/16in (1 500)	36 4/16ft <sup>2</sup> (3,37 m <sup>2</sup> )
FOLDING DOOR	ALUMINUM	236 3/16in (6 000 mm)	110 3/16in (2 800 mm)	39 3/8in (1 000 mm)	36 4/16ft <sup>2</sup> (2,8 m <sup>2</sup> )

# Folding doors - Technical information

Opening by folding the sashes to the side edges, so that after folding all the sashes, almost the entire door surface is opened. Different design variants in terms of quantity and functionality of turn sashes.



## HANDLES



**The handle is available in colors:**  
white, brown, silver (F1), brass (F3), old gold (F4), titanium (F9), dark grey (RAL 7016), black (RAL 9005)



Handle with a key is available in colors: white, brown, silver (F1), old gold (F4), titanium (F9), dark grey (RAL 7016), black (RAL 9005), dark grey (RAL 7016), black (RAL 9005)



**Handle on a long backplate available in colors:** white, black

**Additional handle available in colors:** white, black



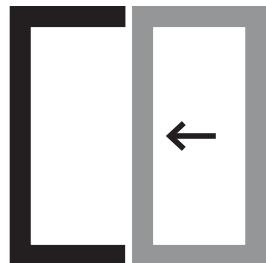
The table determines the maximum dimension that can be obtained under favorable conditions of installation using a specific construction and profile scheme. Ask your dealer for details of possible door sizes within your chosen solution.

# Basic schemes for opening sliding doors

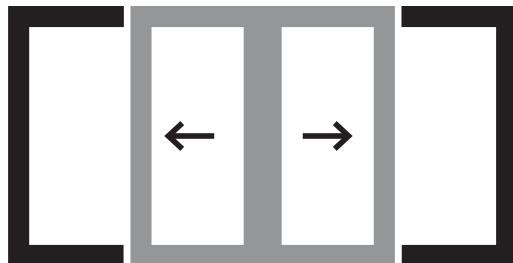


## MORE POSSIBILITIES

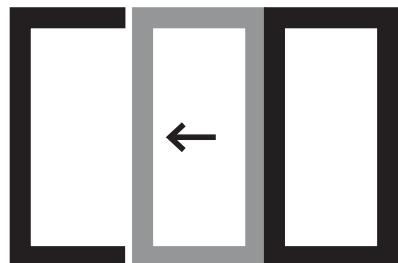
In the case of aluminum joinery, it is also possible to make more complex structures in additional schemes - ask your sales representative in the showroom for details.



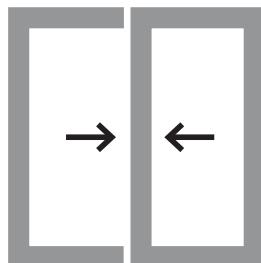
Scheme A



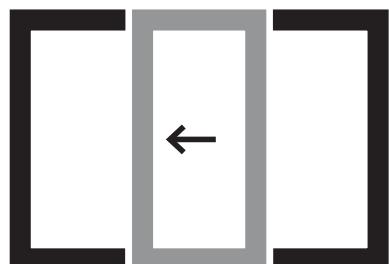
Scheme C



Scheme C Variant



Scheme D



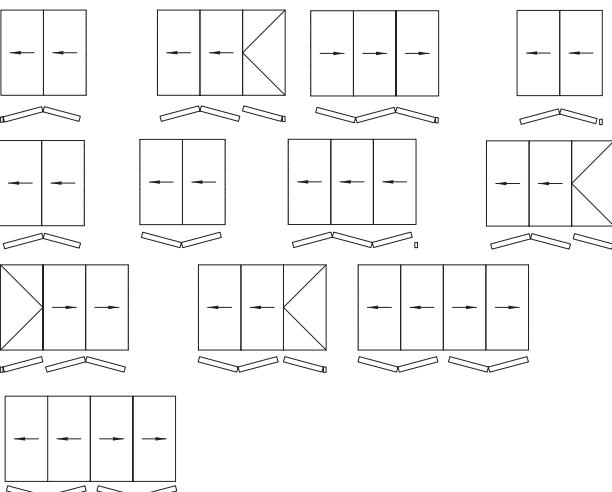
Scheme G2



Scheme K

movable sash of the structure

elements of fixed parts (frames or sashes)

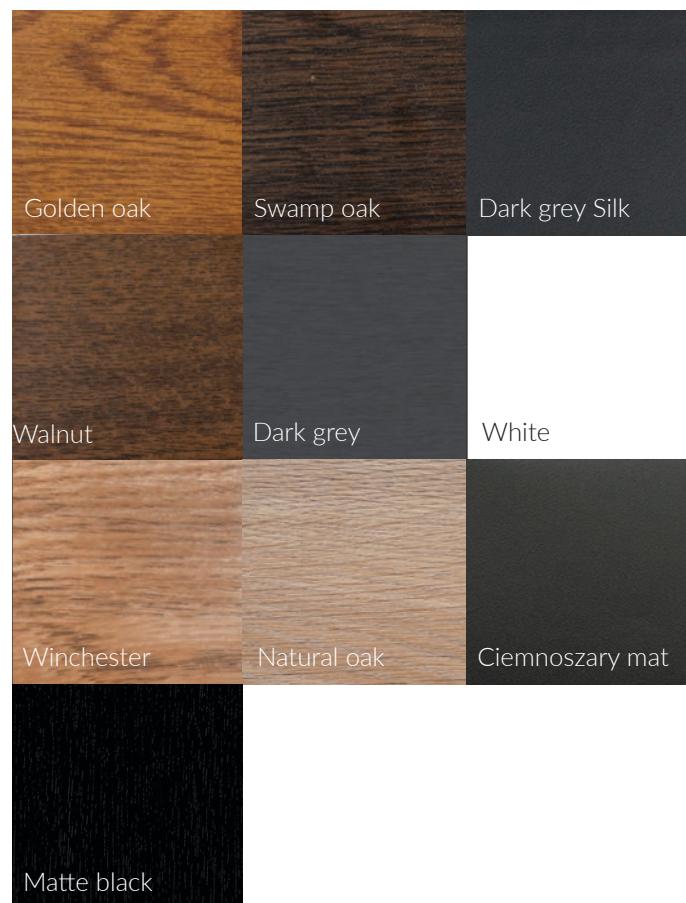
SYSTEM	MATERIAL	SCHEMES AVAILABLE	PRODUCT SERIES
SKYLINE	ALUMINUM	Scheme: A, C, K	DA-SkyLine, DA-SkyLine TYPE-R
		Scheme: D	DA-SkyLine
		Scheme: G	DA-SkyLine TYPE-R
HST	VINYL	Scheme A	HST-motion AL, HST-motion flatstep 24mm, HST-motion max
		Scheme: A, C, C variant, D	HST-motion,
	WOOD	Scheme: A, C, D, G	DDF-68 HST, DDF-78 HST DDF-92 HST, DDA-78 HST
		Scheme: A	DDF-68 AL HST; DDF-78 AL HST; DDF-92 AL HST; DDA-78 HST CLASSIC; DDA-78 HST QUADRAT FB (wood with overlay and wood-aluminum)
	ALUMINUM	Scheme: A, C, D, G, K	DA-51 HST, DA-77 HST, DA-51 ST
LINE SLIDE	PVC	Scheme: A	SlideLine
HKS	VINYL	Scheme: A, K (division into 4), C, C variant	DPP-70, DPB-73, DPB-73+, DPQ-76, DPQ-82, DPQ-82 thermoSecure, DPQ-82AL, DPQ-82 thermoSecure AL
	WOOD	Scheme: A, C	DDF-68 , DDF-78, DDF-92, DDA-78
PAS	VINYL	Scheme: A, K (division into 4), C variant	DPP-70, DPQ-76, DPQ-82, DPQ-82 thermoSecure, DPQ-82AL, DPQ-82 thermoSecure AL,
FOLDING	ALUMINUM		

# The colors of your place on Earth

## Colors of windows and patio doors

JOINERY  
VINYL

### BASIC COLORS



### SPECIAL COLORS

The most popular customer choices



### SPECIALTY COLORS

Other colors



You can check the full range of VINYL  
colors available on our website  
[www.dakowindows.com](http://www.dakowindows.com)  
or in our showrooms

## JOINERY WOODEN

### TRANSPARENT COLORS

pine, meranti

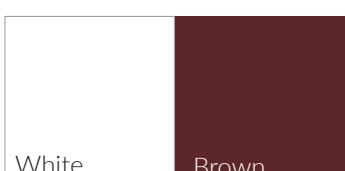


\* Available as an interior finishing option



The coloring of varnishes varies depending on the wood on which it was used. The material presents an illustrative coloring of transparent colors on pine, and wood-work (right side) and meranti (left side).

### OPAQUE COLORS



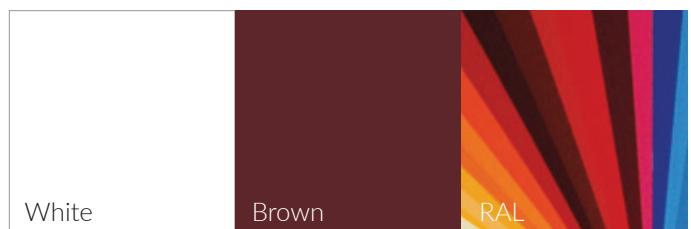
### OPTIONAL COLORS

Any color from the RAL palette



## JOINERY ALUMINUM

### BASIC COLORS



### WOOD-LIKE VARNISHES



### SPECIAL COLORS - VENEERS

Colors not available for patio doors





**It's important,  
that the house to  
be comfortable**

---

As well as protection  
of residents' privacy

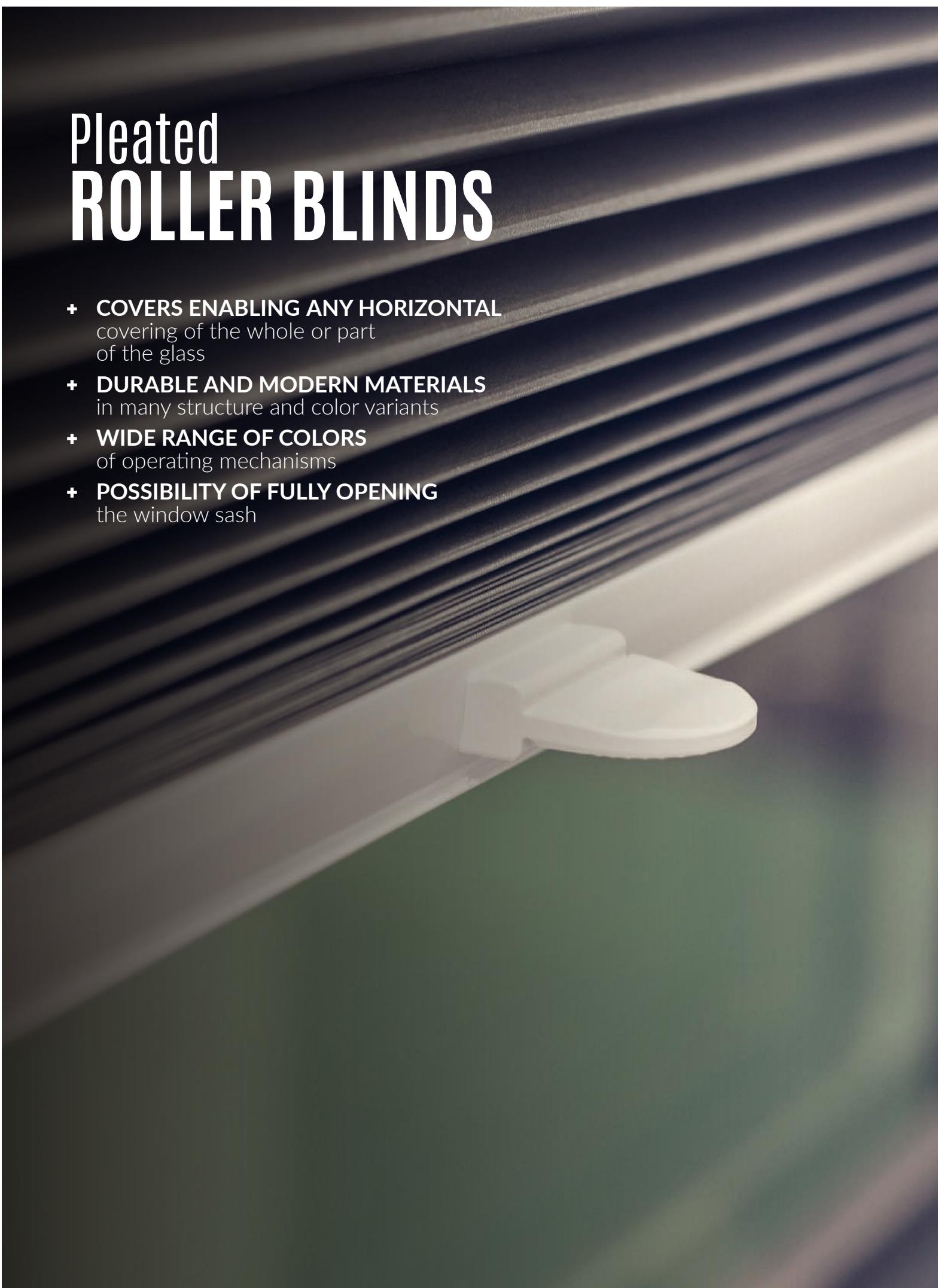


## WINDOW COVERS

—  
Textile roller blinds  
Pleated roller blinds  
Screens

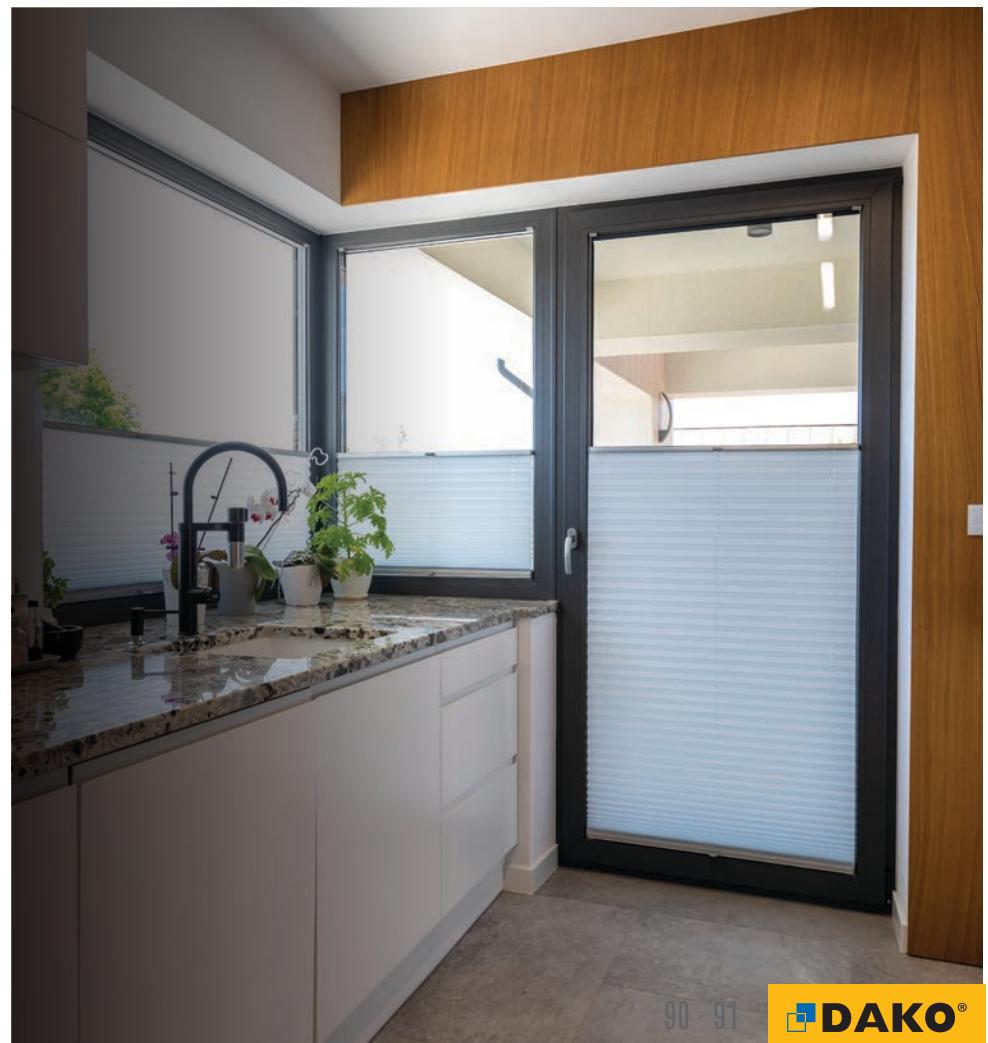
# Pleated **ROLLER BLINDS**

- **COVERS ENABLING ANY HORIZONTAL**  
covering of the whole or part  
of the glass
- **DURABLE AND MODERN MATERIALS**  
in many structure and color variants
- **WIDE RANGE OF COLORS**  
of operating mechanisms
- **POSSIBILITY OF FULLY OPENING**  
the window sash



### OPERATION OF THE PLEAT:

- The pleat material is attached to 19 mm high aluminum profiles
- The pleat is moved on the strings fixed in the window sash's glazing recess using the supplied handles.



# ROLLER BLINDS IN AN ALUMINUM CASSETTE

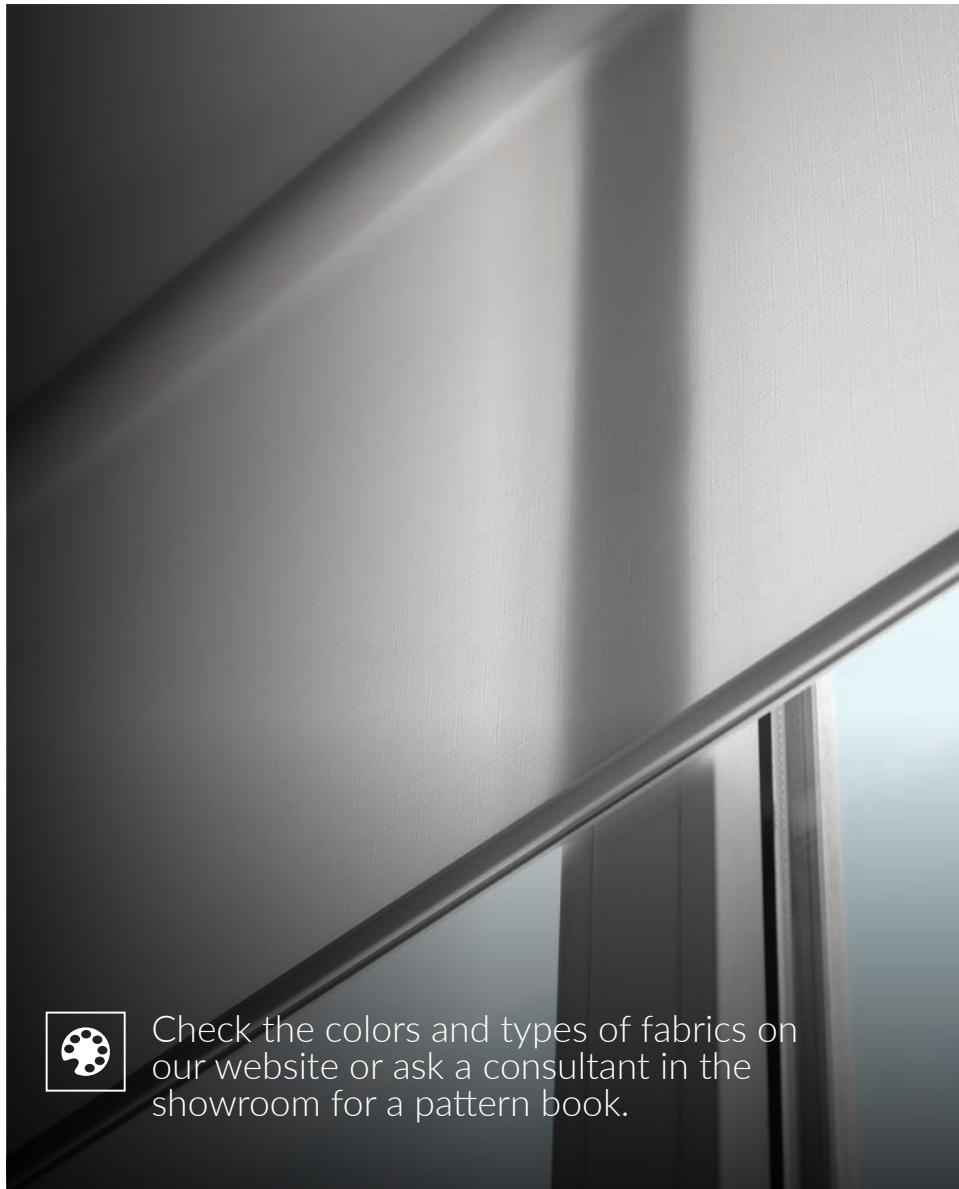
- systems:  
DK- VERA, DK-LUISA (with the possibility of electric control)

# ROLLER BLINDS IN A VINYL CASSETTE

- systems:  
DK- NINA, DK - IGA, DK-KLARA and DK-ROMA

# DAY/NIGHT SYSTEM

- is available in a free-hanging version, without side guide rails (DK-STELLA) and in a vinyl cassette (DK-KLARA and DK-ROMA)



Check the colors and types of fabrics on our website or ask a consultant in the showroom for a pattern book.





## Textile roller blinds

- **PRACTICAL WINDOW COVERS** that allow you to regulate the amount of light in the rooms and their darkening
- **PROTECTING THE PRIVACY** of homeowners
- **AESTHETIC APPEARANCE** guaranteed by high quality workmanship
- **WIDE SELECTION OF FABRICS AND COLORS** allows to give them an individual character
- **SEVERAL INSTALLATION OPTIONS** and different design variants ensure high functionality of the covers

# Screens

---

A way for opened windows  
and comfortable airing.

- + **HOUSE PROTECTION** against troublesome insects and bugs
- + **PROTECTING INTERIORS** against leaves and flowers falling from the trees
- + **CAN BE FITTED** to almost any type of window or patio door or it can be integrated into an external roller blind

# SCREEN TYPES

## ■ WINDOW SCREEN

popular solution in the form of a screens stretched on a frame mounted on a window frame with the use of non-invasive hooks. The construction of the screens does not open.

## ■ DOOR SCREEN

frame screen designed for mounting on additional hinges in the entrance door or balcony door. The construction of the screen is functional.

## ■ ROLL-UP SCREEN

a solution referring to the structure of textile roller blinds equipped with a cassette and side guide rails. The screen is rolled up on a cassette placed on the window frame.

## ■ SLIDING SCREEN

■ a type of screen consisting of a net stretched on an aluminum frame and guide rails, usually mounted in sliding doors. The structure is opened by sliding horizontally.

## ■ PLEATED SCREEN

■ A modern solution made of pleated mesh stretched on an aluminum profile. When closing, the mesh of the screen is folded and depending on the chosen version, it is hidden in the profile to the side or upwards.



In selected roller shutter systems we also offer a version with a screens rolled up together with the roller shutter to the roller shutter box





# Single-familyhouse

in the project realization, a comprehensive DAKO joinery in dark grey RAL 7016 was used:

- vinyl windows: tilt - turn, fixed glazings (fixed window)
- HST terrace doors
- external roller shutters (incorporated and elevation system)

# GLOSSARY

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## of terms

**WINDOW FRAME**, also called a frame is a structural element of the window embedded in the wall, which connects it permanently with the window opening. The sashes - one or several - are attached to the frame by means of hinges.

**WINDOW SASH**, opening part of the window. It is equipped with a handle that allows the operation and control of the sash. The sash, depending on the fitting used can be turn, tilt, or tilt and turn.

**WINDOW SEALS** are elements that ensure the tightness of windows. As a standard, two types of seals are installed in windows - glazing and resistance seals (called bumpers or rebounders). Both of them prevent water from getting inside the window profile and so prevent from rusting of the fittings. Resistance seals are also a barrier to wind, dust and noise. There are always two glazing seals - one on the outside and the other on the inside of the window. Flexibility and resistance to changing weather conditions is provided by the material from which they are made, that is EPDM or TPS.

**HEAT TRANSFER COEFFICIENT** is a value that indicates how much heat is lost per square meter of the surface area (for example, windows or doors) in one hour if the outside air temperature is one degree lower than in the room.

The heat transfer coefficient is marked with  $U$  [ $W/m^2K$ ]. The lower its value, the better - the low heat transfer coefficient informs about the fact that windows and doors have good thermal insulation properties and guarantee the reduction of heat loss.

**THE ACOUSTIC INSULATION** parameters are determined by the coefficient  $R_w$  (dB), which informs about the degree of attenuation of noise coming from the outside

the building. The higher the coefficient value, the better protection against noise is guaranteed by the window. The value of this parameter is influenced by several elements - tightness of windows, their dimensions, acoustic insulation of glass inserts and profile construction.

**RC (RESISTANCE CLASSES)** a scale determining the level of burglary protection class for windows and doors on a six-stage scale. In the single-family building industry, products in RC2\RC3 classes are most often used. The PN-EN 1627 standard specifies six classes of burglary resistance of construction products, including windows and doors, and specifies the methods and attempts to gain access for them. Certificates confirming increased resistance to burglary are issued by certification bodies conducting conformity assessment activities, which have active accreditation for this scope of testing.

**CLASS OF VINYL WINDOW PROFILE AND NUMBER OF CHAMBERS** Individual classes of profiles vary in terms of profile wall thickness and are determined in accordance with applicable standards. The class of window profiles mainly affects the stiffness of the window profile and the load-bearing capacity of the welded corners of the window sections. The window profile itself consists of chambers whose task is to improve the thermal properties of windows. Nowadays, a 5-chamber profile seems to be the standard below which you shouldn't go down in order to keep the thermal performance of windows at a satisfactory level.

**CLASS A PROFILES** - the minimum thickness of the visible wall is greater or equal to 2,8mm, and the invisible wall is greater or equal to 2.5 mm. Such a solution ensures greater window stability, better thermal insulation properties and with appropriate glazing, effective protection against external noise.

**CLASS B PROFILES** the minimum thickness of the visible wall is greater or equal to 2,5 mm, and the invisible 2 mm (class C includes profiles whose minimum visible and invisible wall thickness is not specified). The window, whose profile is class A, will therefore be more rigid and stable than B and C class windows.

—

**FITTINGS** are elements of a window whose primary task is to maintain the tightness and to open, close and tilt window or door sashes. The fittings are also responsible for security, protecting against burglary. One of their key elements is the handle, as it is with it that we change the position of the sash. Nowadays, the most common fittings in windows are the circumferential fittings (also called peripheral fittings), i.e. the ones that are located around the entire circumference of the sash. When closed, they press the sash evenly against the frame. This ensures tightness and prevents profile deformation. What kind of circumferential fittings we choose depends on how our windows will open. You can choose between turn, which will allow you to fully open the window and tilt, allowing only for tilting the sash. However, the most convenient solution is the hardware that combines both functions, i.e. Tilt and Turn.

—

**MICROVENTILATION** is a function provided by appropriate fittings, which gives the possibility of incomplete closing of the window sash. By using this variant, the sash is not in close contact with the frame, and a few millimeters wide gap is created between them to allow air circulation, while protecting the sash against opening in case of a stronger wind blast.

### FIXED POST / MOVABLE POST

The post is an element of the window construction separating its quarters - depending on the window construction possibilities or investors' preferences, it can be in fixed or so called movable version.

—

**FIXED POST** is an element permanently connected to the window frame, thanks to which the bigger statics are preserved and thus the construction is more resistant to strong wind or burglary attempts. In such a solution, each sash operates independently, which allows for the use of the tilt and turn mechanism in both sashes (at double-sash windows).

In the case of a **MOVABLE POST**, these elements of the window construction are not permanently connected to the window sash frame - and the post is created by overlapping parts of the sash faces. In this variant only one handle is used and to open the second sash requires (after opening the first one) unlocking the catches located inside the sash frame. An important advantage of the movable post is the opening clearance, which is not limited by a vertical post, and is almost always used for balcony doors, where a large light passage is desired.

—

**GLAZING PACKAGE** standard solution for glazing windows and doors, currently the standard is to use two or three glazed packages, separated by a distance frame and filled with argon. The space between two panes separated by a spacer is called a chamber. Single, double or triple chamber glazed units are available on the market.

—

**SPACER FRAME** (inter-pane) – element of the glazing pack that seals the edges of the glazing units and separates the panes from each other. Most frames are made of aluminum, whose high thermal conductivity makes the heat escape through the window. Frames are available in different color variants and have different parameters such as the warm edge spacer frame.

—

**SAFETY GLASS** is not an anti-burglary glass, but one that does not create a risk of injury in the event of damage. After breaking, the safety glass will fall apart into blurred fragments or due to the protection of a special film, will remain intact.

—

**PANE BARS** are decorative, thin slats that divide the glass into sections. The most commonly used solutions in this area are Viennese pane bars, which are glued on the outside of the glass or the so-called internal pane bars, which are placed inside the glazing units.





#### A PRESTIGIOUS POLISH BRAND CLOSE TO YOU

Commitment, passion and hard work are the features due to which the family company DAKO, established in 1994 in Nowy Sącz, is today a thriving brand with an established position on the joinery market. A modern machine park with an area of 33 800 m<sup>2</sup>, working under the supervision of qualified specialists, allows us to provide our customers with products of the highest quality. Thanks to an extensive network, well equipped showrooms and professional support of sale advisers, DAKO products are available almost everywhere.

#### EXPERIENCE ON THE GLOBAL MARKETS SINCE 1994

The long history of the brand's existence means successes not only on the domestic market, but also experience on foreign markets such as Belgium, France, Germany, Italy, Canada, New Zealand, or the USA and Japan. Currently, more than half of the production is made up of various types of products that are purchased by export markets from all over Europe, whose trust in the brand is due to the high quality of services offered.

#### COMPREHENSIVE PRODUCT OFFER

The high quality of the brand's products is confirmed not only by numerous and systematic tests and certificates or a long warranty period. The most reliable and valuable opinions about our products are primarily a growing group of satisfied customers who have placed their trust in DAKO windows, doors, roller shutters and garage doors, choosing a comprehensive brand offer to make their dreams of their own home come true. We are particularly proud of this fact.

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- All photos included in the index present DAKO products used in the project realizations. We would like to thank the investors for the opportunity to complete the session.
- The presentation of the products in the photos is for illustrative purposes – due to the light in the images - the actual appearance of the colors and textures of individual products may slightly differ.



Photos on pages 26-35  
courtesy of Nasi Mazzucchelli architetti

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tutti i diritti riservati



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