

WINDOWS | TERRACE DOORS | EXTERIOR DOORS | TIMBER



# CONTINUOUS INNOVATION

since 1994

✓ Quality ✓ Innovations ✓ Cutting-edge technologies
 ✓ Professional network of business partners
 ✓ Experience ✓ International presence

Since 1994 DAKO has developed an unrivalled reputation for innovation, quality and workmanship as a manufacturer of a wide range of high-performance PVC, timber, aluminium and steel products that meet global Clients' needs.

The company's growing success can be attributed to its continually modernized production process, cutting-edge technologies and continuous adaptation to changing Client requirements. DAKO improves its employee competencies, continuously invests in company development and successfully expands into new markets. The company has sold millions of windows worldwide and boasts a record of strong Client satisfaction.

### We currently serve the following countries:

Germany, Italy, Norway, Sweden, France, Belgium, Czech Republic, Slovakia, Poland, Luxembourg, Spain, Israel, Tunisia, Mexico, Japan and many others.











## Range of products





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# **WAY TO QUALITY**

Explore the way to DAKO quality. Learn how proceeds the process which aims at meeting the individual expectations of every single customer.









#### Analysis of technological opportunities

The technological progress gives the joinery producers an increasing number of possibilities. To meet growing expectations of customers the manufacturers must constantly follow technological innovations and modify the range of products by introducing the solutions that best meet the users' needs. DAKO company has a team of qualified and experienced engineers forming the Product Development Department, which is responsible for products development.

#### Selection of the best components

All products are made of components supplied by producers recognised by the worldwide markets. The highest quality PVC profiles, timber of optimum physical and mechanical properties and aluminium systems used in the most prestigious projects guarantee reliability and durability of DAKO products. Glasses and fittings from renowned suppliers ensure maximum energy saving, security and functionality of our products.

#### Innovative technological park

Combining components in the efficiently operating system requires cutting-edge machines. DAKO joinery is produced in the technological park which is one of the most innovative object of this type. The precise, numerically-controlled woodworking, milling, welding machines and saws operate in two production halls with total surface of 20 000 m2. The park also has a testing laboratory, powder paint shop and profile edge banding shop, ensuring full control over product finish quality.

#### Experienced and qualified staff

The production process is carried out and controlled by qualified specialists and engineers having long job seniority. Regular trainings and tests ensure a high level of competencies, required to construct complex windows, modern terrace doors with large glazing and other advanced

#### Adherence to stringent standards

In order to ensure the highest production standards, DAKO undergoes assessment, control and certification procedures. They result in authorisations, certificates and rights to use the marks confirming products quality. DAKO has, among others, Q-Zert certificate issued on the base of the audit carried by the IFT Rosenheim, the most important research centre in Europe. Additionally, DAKO products are compliant with the European Standard CE, and the authorisations from the suppliers of components confirm that they meet rigorous safety requirements.

#### Quality control

DAKO has a department responsible for quality control, that is an important link in the production process. Both received components and ready-made products undergo detailed controls. Each production line has its own controllers who supervise specialists' work. The additional control is carried out randomly by the patrols that inspect the production process on all lines.

#### Transport fleet

Windows, as the exceptionally sensitive products need to be appropriately treated during transport. The own vehicle fleet allows for complete control over the loading, transport and unloading of our products. Due to DAKO own vehicles we are certain our products reach the customers preserved intact. Additional benefit resulting from our own transport fleet are fixed, regular delivery times that influence the date of order completion.

#### Competent sales advisors in the showrooms

The final step in the way to DAKO quality is the showroom. Only professional guidance and correct assesment of the building situation can make the joinery fulfil its function and meet the customers' expectations. DAKO Commercial Partners are the experts with the extensive knowledge and experiance that allow to meet the requirements of contemporary architecture.



# WINDOWS

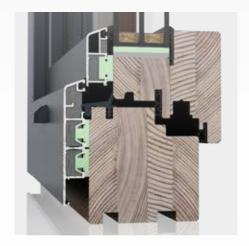
BEAUTY AND ELEGANCE SENERGY EFFICIENCY

# DA-78 NOVELTY

### Innovation, modern design and wide scope of possibilities

✓ Highest quality of timber window of aluminium profile ✓ The choice from 9 different shapes of aluminum profile from the outside ✓ Innovative dry glass instalation ✓ Glass placed on seals

Carefully selected wood combined with aluminium profile ensures excellent thermal and acoustic insulation of the window along with durability and resistance to weather conditions.





# 

- High thermal and acoustic insulation
- Optimal performance parameters
- 2 visual variants

By using triple glazing with noble gas, windows gain excellent thermal and acoustic insulation and also provide highest performance comfort. Wide range of window frames colours enables arranging and adjusting timber products to individual building character.



#### **DDF-78**



#### **DDR-78**

#### **CHARACTERISTICS:**

- Profile of modern line (apply to DDF-78)
- Pine, larch and Meranti wood
- 3 retractable seals

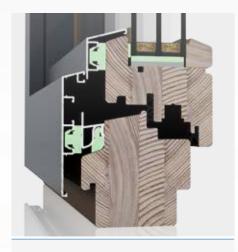


# DDF-78 AL NOVELTY

### Warmth, Style, Durability

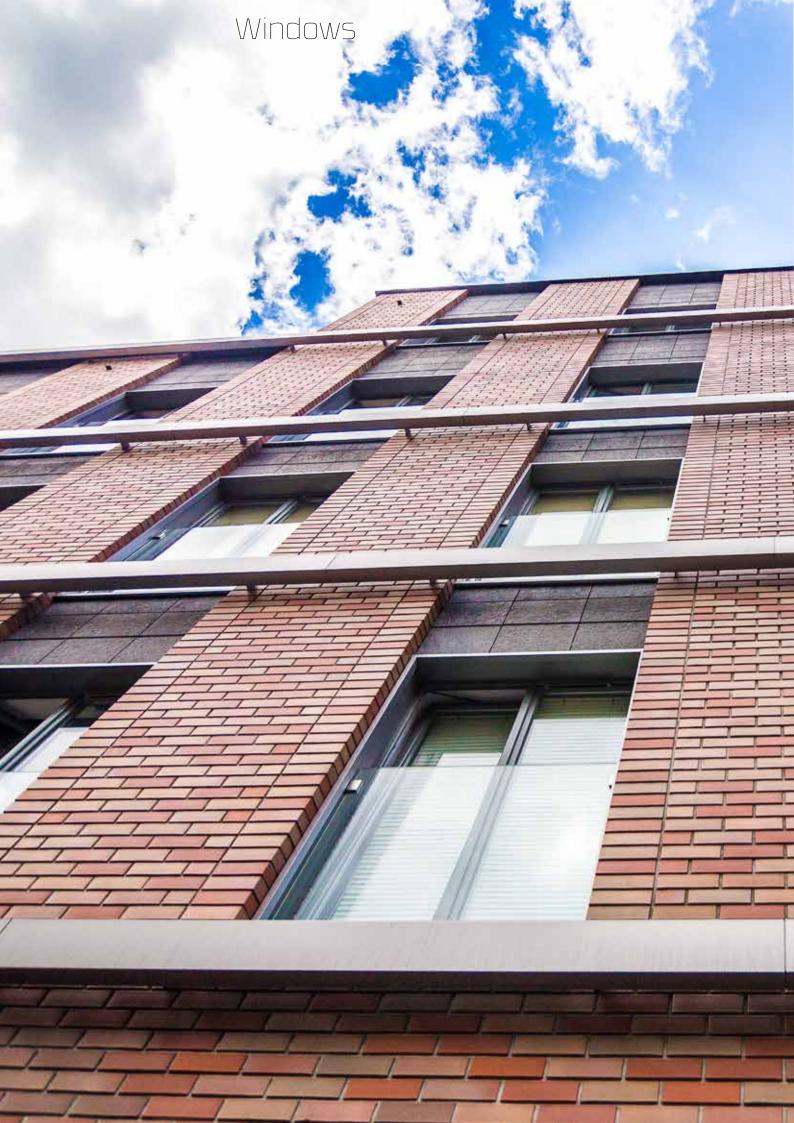
- Resistance to weather and mechanical damages
- Energy-saving and thermal comfort
- ✓ High quality standard and modern style

Energy-efficient timber windows with aluminium cladding ensure excellent thermal and acoustic insulation along with durability and resistance to weather conditions. Natural beauty of wood strengthened with aluminium cladding ensures prestigious design, remarkable durability, and also highlights unique style of building.



High quality standard and modern style



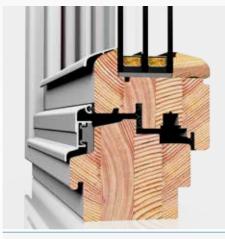


# DDF-92

### Naturally beautiful warmth

- Maximum thermal and acoustic insulation
- Awarded with the Golden Emblem Quality International
- Natural beauty of wood in modern design

The most prestigious series of DAKO timber windows which gain their exceptional value due to the carefully selected natural raw material. Rounded shape of the profile and glazing bead makes the windows elegant and universal. The cutting-edge technology used in windows production has gained the recognition among the customers, confirmed by the awards granted by the industry experts.



#### THE WARMEST TIMBER **WINDOWS IN POLAND ACCORDING TO LTB\*** RESEARCH

Awarded with Golden Emblem Quality International as a product of the highest quality



# DDR-92

### Stylish and energy-saving

- Maximum thermal and acoustic insulation.
- ✓ Ideal for buildings of historical and rustical character
- Sophisticated beauty of natural wood

A sophisticated series of windows with enriched profile line giving the products a unique and subtle appearance. It enables the energy-saving technologies to be applied in the buildings requiring an individual treatment. The windows are ideal for historical architecture and perfectly emphasize a warm character of rustical interiors.



#### **APPLICABLE IN:**

- Stylised objects
- Historical architecture
- Traditional and rustical buildings





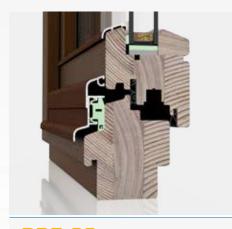
# $\frac{\text{DDF-68}}{\text{Natural beauty with extensive}}$

# equipment

- Attractive price
- Very good thermal and acoustic insulation
- Modern or stylised profile line

The appearance of DDF-68 and DDR-68 series fully corresponds to the aesthetics of DDF-92 and DDR-92 windows. The attractive price results from the use of 68 mm thick profile. The source of series popularity is its extensive equipment guaranteeing a very good thermal and acoustic insulation.





**DDF-68** Modern edge of the profile



**DDR-68** Ornately milled edge of the profile



# DDF-92AL/DDF-68AL

### Exceptional aesthetics, maximum durability

- ✓ Naturally beautiful wood from inside
- Aesthetics and durability of aluminium from outside
- Extensive equipment in standard

The usage of exterior aluminium cladding in DDF-92 and DDF-68 timber windows has resulted in creating a distinctive product of the exceptional values. The noble beauty of wood enriches the interiors making them prestigious and elegant, whereas the aluminium cladding allows for obtaining almost any shape of the elevation.





#### **ALUMINIUM CLADDING**

- Wide variety of colours, textures and patterns
- Aluminium alloy of high quality
- Durability of windows even 30 years longer

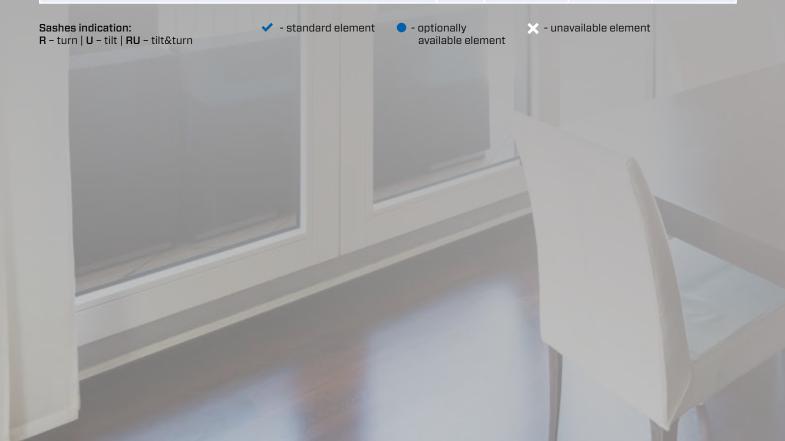


PROFILE	PROFILE		DDF-78	DDF-78 AL
PROFILE				
PROFILE THICKNESS Greater profile thickness provides better thermal in	nsulation	78 mm	78 mm	78 mm
PERIMETER-SEALS Higher number of seals improves window tightness		3	3	3
HANDLE				
HANDLE TYPE Handle influences the aesthetics of windows and may increase the security of the householders		made of aluminium: white or brown	made of aluminium: white or brown	made of aluminium: white or brown
STANDARD GLASS PACKET				
GLASS PACKET Higher number of chambers in glass packet provid thermal insulation	es better 💮	3-glass packet, 4x14x4x14x4	3-glass packet, 4x14x4x14x4	3-glass packet, 4x14x4x14x4
U GLASS VALUE Lower U glass value provides better thermal insulation		0,6 W/m²K	0,6 W/m²K	0,6 W/m²K
FILLING WITH ARGON Argon gas in inter-pane voids improves thermal insulation		<b>~</b>	<b>~</b>	<b>~</b>
STANDARD FITTING				
FITTING TYPE  Modern fittings are infallible and give the windows exceptionally elegant appearance	<b>(a)</b>	Standard	Standard	Standard
CHOSEN SPECIAL FITTINGS				
TILT FIRST		•	•	•
INVISIBLE HINGES	(1)	•	•	•
CHOSEN ENERGY EFFICIENT SP	ECIAL GLASSES			
3-glass packet $4/18/4/18/4$ Warmth and extra lighting $(U_g = 0.5 \text{ W/r})$	m²K)			
3-glass packet 44.4/14/4 $(U_g = 0.6 \text{ W/m})$	m²K)			
<b>3-glass packet 4/14/4/14/33.1</b> Warmth and security (U <sub>g</sub> = 0,6 W/t	m²K)	•	•	•
<b>3-glass packet 44.2/12/6/12/6</b> Silence and security (U <sub>g</sub> = 0,7 W/r	n²K)	•	•	•
4-glass packet $4/12/4/12/4$ Maximum energy saving $(U_g = 0.3 \text{ W/r})$	m²K)			

DDR-78	DDF-92	DDR-92	DDF-68	DDR-68	DDF-92 AL	DDF-68 AL
78 mm	92 mm	92 mm	68 mm	68 mm	92 mm	68 mm
3	3	3	3	3	3	3
made of aluminium: white or brown						
3-glass packet, 4x14x4x14x4	3-glass packet, 4x16x4x16x4	3-glass packet 4x16x4x16x4	2-glass packet 4x16x4	2-glass packet 4x16x4	3-glass packet 4x16x4x16x4	2-glass packet 4x16x4
0,6 W/m²K	0,5 W/m²K	0,5 W/m²K	1,0 W/m²K	1,0 W/m²K	0,5W/m²K	1,0 W/m²K
<b>~</b>	<b>~</b>	✓	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
Standard						
•	•	•	•	•	•	•
•	•	•	•	•	•	•
	•	•			•	
	•	•			•	
•	•	•			•	
•	•	•			•	
	•	•			•	

# FITTING COMPONENTS

CHECK AND COMPARE THE FITTING COMPONENTS		Standard	INVISIBLE HINGES	TILT FIRST
MICROVENTILATION Allows to release the window and provides better air circulation		~	<b>~</b>	×
ANTI-BURGLARY "MUSHROOM" BOLTS ALONG THE ENTIRE SASH PERIMETER Prevent the window from being pried open			~	×
ANTI-BURGLARY CATCHES IN RU SASH Prevent the window from being pried open		1	1	1
ANTI-BURGLARY CATCHES IN R OR U SASH Prevent the window from being pried open		•	•	•
ADDITIONAL ANTI-BURGLARY CATCHES Greater amount of the catches makes the window more secure		•	•	•
HANDLE ROTATION BLOCKADE WITH SLIDING Prevents the tilt sash from being opened		~	<b>~</b>	×
BK BALCONY LATCH Maintains closed sash without using the handle	<b>(S)</b>	•	•	•
BALCONY LATCH AND HANDLE ROTATION BLOCKADE WITH SLIDING Combines the functions of balcony latch and handle rotation blockade	<b>(S)</b>	•	•	×
TBT HANDLE Prevents the sash from being opened without the key allowing only for its tilting				<b>~</b>
ANTI-DRAUGHT LOCK Prevents the sash from hitting the frame		<b>~</b>	<b>~</b>	~





#### FITTING FUNCTIONS



#### **TILT FIRST**

The handle set horizontally tilts the window, whereas the full opening requires the handle to be set vertically. In connection with TBT handle, the fitting allows to limit the possibility of window opening. Without the key the window can only be

tilted what eliminates the risk of falling out.



#### **INVISIBLE HINGES**

When the sash is closed the hinges are invisible what gives the windows exceptionally elegant appearance and facilitates keeping it clean. A great advantage of the fitting is an easy regulation without using the tools.

#### MOVEMENT SENSORS





The sensors integrated with the fitting transmit the information of window closing or opening to the selected systems activating them accordingly to the user's expectations.

#### **USAGE**

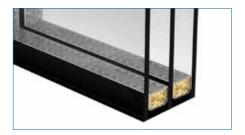
**Air-conditioning** – window opening causes automatic deactivation of the air-conditioners and gives savings resulting from limiting inefficient air-conditioning operation.

**Heating** - sash opening causes deactivation of the heater under the window, therefore, the costs of inefficient heating can be avoided.

**Alarm system** - information of the window status is transmitted to the alarm system, activating the alarm, if needed.

- Three-function sensors distinguish the closed, tilted and opened window so the alarm system can be protected during ventilation.
- Sensors do not react to movement what allows them to be active when residents and animals are at home.
- Sensors are invisible from the outside and, therefore, the burglars cannot prepare themselves for attempting to disarm them.

## GI ASSES



3-glass packet 4/14/4/14/4
EXTRA THERMAL INSULATION

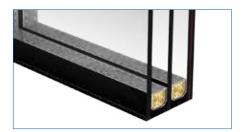
Improves thermal insulation of windows. Total thickness of glass packet allows for its installation in all windows, regardless of the profile thickness.



Total solar energy transmittance: g=51%

Light transmittance: Lt=72%

Thermal permeability: U<sub>g</sub> = 0,6 W/m²K



3-glass packet 4/14/4/14/33.1 WARMTH AND SECURITY



Internal glass is covered by foil, therefore, broken glass does not disintegrate what excludes the risk of injury.

#### TECHNICAL PARAMETERS -

Safety class: B2B

Total solar energy transmittance: g=47%

Light transmittance: Lt=70%

Thermal permeability: U = 0,6 W/m²K



3-glass packet 4/18/4/18/4 WARMTH AND EXTRA LIGHTING

Provides greater permeability of solar energy and light as well as improves heating and lighting of the interior.

#### TECHNICAL PARAMETERS -

Total solar energy transmittance: g=50%

Light transmittance: Lt=70%

Thermal permeability: U<sub>g</sub> = 0,5 W/m²K



3-glass packet 44.2/12/6/12/6 SILENCE AND SECURITY



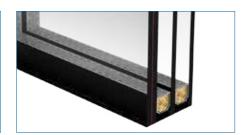
Glass construction ensures high level of protection against burglary and increased acoustic insulation.

#### TECHNICAL PARAMETERS -

Safety class: P2

Acoustic insulation coefficient  $\mathbf{R_w}$ =39dB

Thermal permeability: U<sub>q</sub> = 0,7 W/m<sup>2</sup>K



3-glass packet 44.4/14/4/14/4
SECURITY AND PROTECTION

Characterised by high impact resistance and additionally equipped with a filter protecting against highenergy fractions of sunlight and UV radiation.

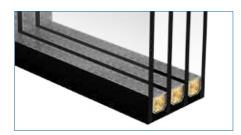
#### TECHNICAL PARAMETERS -

Safety class: P4

Total solar energy transmittance: g=45%

Light transmittance: Lt=69%

Thermal permeability: U<sub>a</sub>= 0,6 W/m²K



#### 4-glass packet 4/12/4/12/4/ MAXIMUM ENERGY SAVING

Three chambers of 4-glass packet guarantee maximum thermal insulation making this packet an ideal product for passive houses.

#### TECHNICAL PARAMETERS -

Thermal permeability:  $\mathbf{U_g} = \mathbf{0.3} \ \mathbf{W/m^2K}$ 

Total solar energy transmittance: g=33%

Light transmittance: Lt= 48%

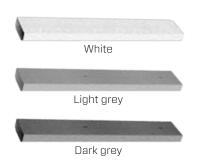
#### WARM-EGDE SPACERS



Warm-egde spacer increases thermal performance of the window.



Chromatech





## HANDIES



HANDLE 1006 (standard)



HANDLE 1007



**HANDLE 1009** 



**HANDLE 1012** 



**HANDLE 1030** 



SECUSTIK®
LUKSEMBURG HANDLE

Protected by the mechanism preventing the window from being opened from the outside.



SECUSTIK®
NEW YORK HANDLE

Protected by the mechanism preventing the window from being opened from the outside.



SECUSTIK®
LUKSEMBURG HANDLE
WITH KEY

Opening Secustik® handle with key requires the key to be used what reduces the risk of accident and prevents the window from being opened from the outside.



1006 HANDLE WITH KEY

Window opening requires the key to be used what reduces the risk of an accident and prevents the window from being opened from the outside.



1006 HANDLE WITH BUTTON

Window opening requires the lock release with the button what reduces the risk of an accident and prevents the window from being opened from the outside.

#### COLOURS



White



F9 - Titanium



F1 - Silver matt



Brown - RAL 8707 (colour available only for secustik handles)



Brown - RAL 8019 (does not apply to secustik handles)



F4 - Old gold



F2 - Champagne - (colour available only for secustic luksemburg and new york handles)



# TERRACE DOORS

◆ SPACE (1) ELEGANCE (2) COMFORT

# Lift-sliding HST doors

### Space, prestige, comfort

- Convenient opening and closing
- Maximum prestige and elegance
- Threshold flush aligned with floor

The door operates on the basis of innovative lift-sliding opening system that gently raises the sash moving on special rollers. Therefore, sliding the door is effortless. The door threshold can be flush aligned with the floor surface from inside. The system enables exceptionally large glazing to be constructed what allows for transmission more daylight to the interior making it spacious and prestigious in character.



**OPTION:** ALUMINIUM CLADDING

#### **TECHNICAL PARAMETERS:**

( ) Max. weight of sash: 300 kg Max. surface of sash: 6.5 m<sup>2</sup> ( 1 ) Max. height of door: 2,6 m Max. width of sash: 6 m

There are various opening schemes available for door constructions.

#### Opening types:



#### Sliding in horizontal plane

It allows the movable sash to be fully opened.



#### Threshold flush aligned

The alignment of the threshold with the inner floor level, available as an option, eliminates an obstacle in circulation area.



#### Automatic door (option)

Remote-controlled door opening and closing

# Tilt-sliding HKS doors

### Comfort and elegance at reasonable price



Possibility of tilting the movable sash



Very attractive price

Full functionality and operational comfort of the door resulting from the possibility to easily slide and tilt the movable sash. The simplicity of system operation allows to obtain very reasonable price and, therefore, the elegant and trendy large glazing is accessible to each home.

#### **TECHNICAL PARAMETERS:**

Max. weight of sash: 160 kg	Max. surface of sash: <b>3m²</b>
Max. height of door: <b>2,4 m</b>	Max. width of sash: <b>3 m</b>

There are various opening schemes available for door constructions.



#### Opening types:



#### Sliding in horizontal plane



It allows the movable sash to be fully opened.



#### **TILTING**



It allows the movable sash to be tilted along the upper edge. It enables proper ventilation of rooms and air circulation.

# Bi-folding doors

### Classic and functionality

Maximum light passage

Stylish and classic appearance

The folding system is a proven solution allowing full light transmission through the opened door. Regular vertical divisions give the interior and facade a stylish character making bi-folding doors an ideal solution for warm and traditional interiors.

#### **TECHNICAL PARAMETERS:**



Max. height: 2,4 m



Max. width: 3m

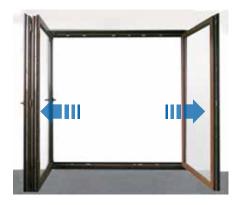


Max. width of sash: **0,9** m

There are various opening schemes available for door constructions.



#### **Opening types:**



#### **Unfolding**



The sashes fold up to the side edges.



#### Maximum light transmission



After folding all sashes almost the full door surface is opened.



# EXTERIOR PLATE DOORS









1. JESPER | 2. ANTON | 3. KRISTER | 4. NIKLAS



5. MEVA | 6. SCALA | 7. SAFIR | 8. CANIS | 9. FELIS | 10. OMBRA | 11. LUX | 12.PERLA





13. TALLA | 14. TAIDA | 15. NICETA | 16. KORA | 17. EUNIKA | 18. FEBA | 19. SOTERA | 20. NILA





21. IDALIA | 22. ARGEA | 23. FOTYNA | 24. ZOE | 25. ALLA | 26. DALIA | 27. ALBA | 28. STELLA

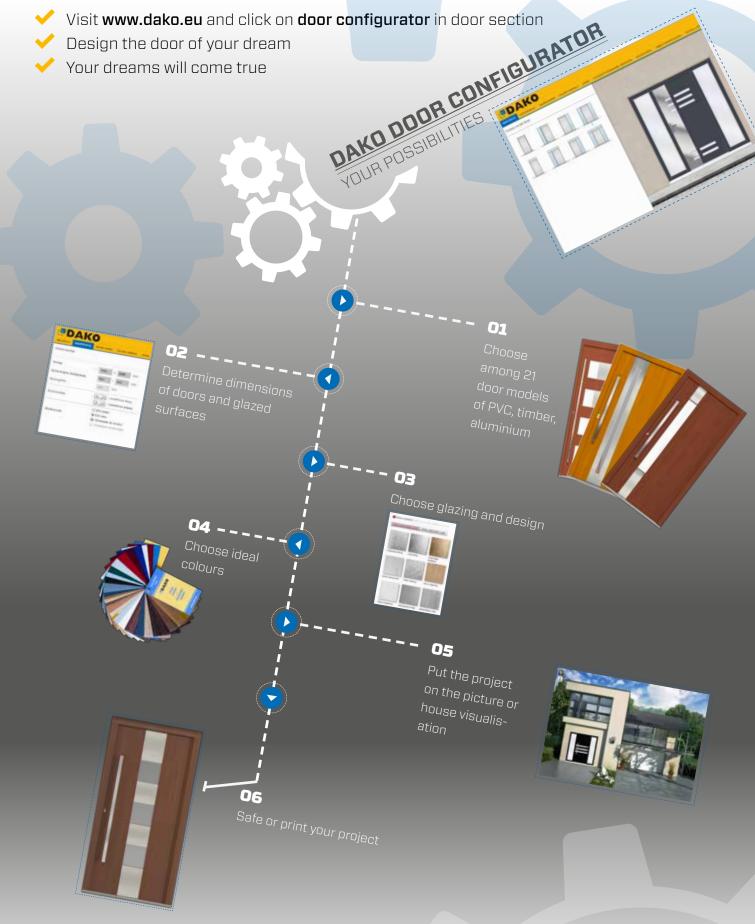






29. LILLA | 30. TULIA | 31. NOEL | 32. ZOLA | 33. KEIRA

# Doors that you need



# Exterior plate doors Construction

Due to the attachment panel, the sash of the door forms the unitary surface.

## Glass

#### **THERMAL INSULATION**

**92 mm:** 4-GLASS PACKET 4/18/4/18/4/18/4 Ug=0,5 W/m²K

**78 mm:** 3-GLASS PACKET 4/22/4/22/4

**68 mm:** 3-GLASS PACKET 4/16/4/18/4

### Frame



## WARMTH AND SECURITY

High-quality, layer-glued meranti timber of very good technological properties.

Available wood species: meranti

# Threshold



## PROTECTION AGAINST COLD

Low threshold, made of aluminium, with thermal insert. Height 20 mm.

- Standard dimensions: 1100 x 2115
- Installation depth: 68, 78 or 92 mm
- Inward or outward opening



# RESULTS MATTER!







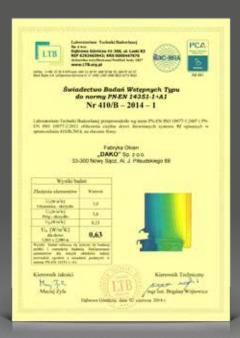
## Water resistance



#### 900 Pa

The door keeps water resistance under wind pressure of almost 140km/h, whose power is defined as causing "great havoc". Due to its exceptional parameters, the door provides reliable protection against storms and rainfall with a severe wind.





## Thermal insulation



#### U<sub>d</sub>=0,63 W/m<sup>2</sup>K

The door has the exceptional heat transfer coefficient what guarantees the householders maximum protection against



## Exterior plate doors

# Standard equipment

A solid basis for unique aesthetics of DAKO doors is the advanced equipment that provides the householders with warmth, security and the reliable operation of doors for a long time.



# Optional

# equipment



Colours: white, silver (F1), old gold (F4), stainless steel, brown.











**SELF-CLOSER** 

 Provides automatic and controlled sash back of door to the closed position







#### **✓** GRIPS

- P-10 | Available length in mm: 580, 800, 1000, 1200
  O | 1400, 1500, 1600, 1800 | O
- Q-10 | Available length in mm: 580, 800, 1000, 1200

#### GLASS

- 1. 2/B/2 safe glass with foil
- 2. P2 of increased protection against breaking
- 3. P4 of increased protection against breaking
- 4. Sandblasted
- 5. Ornamental
- 6. Reflective
- 7. With warm-egde spacer

#### \*Do you need different glass?

Contact us - www.dako.eu





# EXTERIOR FRAME-PLATE DOORS





CLASSIC 🗈 SECURITY 🔅 WARMTH





1. ENA | 2. IDA



3. BELLA | 4. SIMA | 5. TIRA | 6. KENNA | 7. KANSAS | 8. BOSTON | 9. CHICAGO | 10. HAVANA





11. BAGDAD | 12. MEXICO | 13. ATLAS | 14. ONTARIO | 15. PANAMA | 16. SAHARA | 17. LONDON | 18. PARIS

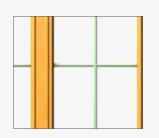


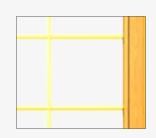


19. SEVILLA | 20. RUFIC | 21. USSON | 22. EVOL | 23. CAMON | 24. YVOIRE | 25. SEMUR | 26. MORESTEL



# Elegant **look**







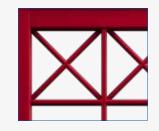


27. ARLES | 28. VERO | 29. MAGNUS | 30. BRUNO | 31. OSCAR | 32. OLIVER



# Original design







# Exterior frame-plate doors

# Construction

Frame-plate door construction provides it with classic and nice appearance.

# Insulating panel



## WARMTH AND DURABILITY

veneer.

Filled with polyurethane foam that guarantees the highest thermal insulation, covered with natural





#### THERMAL INSULATION

**92 mm:** 3-GLASS PACKET 4/14/4/14/4/

**78 mm:** 3-GLASS PACKET 4/14/4/14/4

**68 mm:** 2-GLASS PACKET 4/16/4/

#### Frame



## WARMTH AND SECURITY

High-quality, layer-glued pine, meranti or larch wood of very good technological properties.

Available wood species: meranti, pine, larch





## PROTECTION AGAINST COLD

Low threshold, made of aluminum, with thermal insert. Height 20 mm.





High-quality, layer-glued timber.

- Installation depth 68, 78 or 92 mm
- Inward or outward opening



## Exterior frame-plate doors

# Standard equipment







#### ✓ 92/78/68 mm AUTOMATIC LOCK SYSTEM Z-TF

- Automatic closing. Security without the need to close the door with key.
- Six closing elements. The door security is guaranteed by the multipoint lock system that provides the adjustment of the sash to the frame.
- Installation of the lock system along the entire height of sash. The invisible fitting notch provides the elegant appearance of the opened door.



# ✓ 92/78/68 mm HANDLE ON LONG PLATE

Standard colours:

white or silver (depending on the door colour).

Optional colours:

brown, silver (F1), old gold (F4), stainless steel.



Standard colours:

white

Optional colours:

brown, silver, old gold







with key or butterfly.

# Optional equipment





#### **✓** INSERTS

 C type insert of increased security (standard or with "butterfly").

# HANDLE ON DIVIDED HANDLE PLATE WITH ROSETTE

Colours:

white, silver (F1), old gold (F4), stainless steel, brown.





 Provides automatic and controlled sash back of door to the closed position.







#### **GRIPS**

- P-10 | Available length in mm: 580, 800, 1000, 1200 O | 1400, 1500, 1600, 1800 | O
- Q-10 | Available length in mm: 580, 800, 1000, 1200

#### **✓** GLASS

- 3-glass packet 4/18/4/18/4
- 3-glass packet 44.4/14/4/14/4
- 3-glass packet 4/14/4/14/33.1
- 3-glass packet 44.2/12/6/12/6
- 4-glass packet 4/12/4/12/4/12/4



# Get familiar with our timber

When it comes to the timber joinery, the key to the success is an appropriate choice and treatment of the raw material. In its production DAKO uses the high-quality scantlings of pine, larch or meranti. Carefully selected material goes through advanced technology process in the innovative machine park, where it is supervised by the qualified specialists with long-term professional experience.





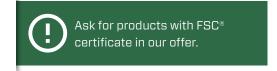


responsible forestry

FSC® CERTYFIKAT. At the customers' request the door is made of FSC® certified timber. The FSC® Chain of Custody certification ensures that the raw material used for DAKO certified windows comes from forests managed in accordance with appropriate forest management principles.

# STANDARDS OF FSC® NORMS INCLUDE AMONG OTHERS:

- Protection of the areas of outstanding natural and social values
- Protection of rare species of fauna and flora
- Strive for maintaining the natural condition of forest ecosystems
- Avoidance of pesticides usage
- Conservation of dead wood for natural decomposition
- Avoidance of genetically modified plants and those of foreign origin



## **Wood species**

#### Solid meranti



Precious wood of Asian origin with excellent technological properties. Used as a raw material increases prestige of finished products. Exotic structure of rings, unprecedented among domestic wood species is its distinguishing feature and major reason of its popularity.

#### Solid pine



Well-tried in production of joinery and traditionally used in window construction. Guarantees very good mechanical properties and high durability of products. The wood has distinctive structure of the conifer. A strong advantage of pine is the possibility of achieving the best value of the product at the reasonable price.

#### Finger joint pine



Finger joint pine scantling retains utility values of the wood used to its production and has distinctive structure of the conifer. Characterised by very high stiffness and resistance to bending. The usage of finger joint scantling is reflected in very attractive price of the products.

#### Solid larch



Extremely resistant wood, as solid as oak and of twice higher refractoriness than pine. As the only species does not rot in seawater. In direct contact with the ground, in extremely adverse conditions it achieves the lifetime exceeding 15 years. Characterised by exceptionally dense wood

grain.

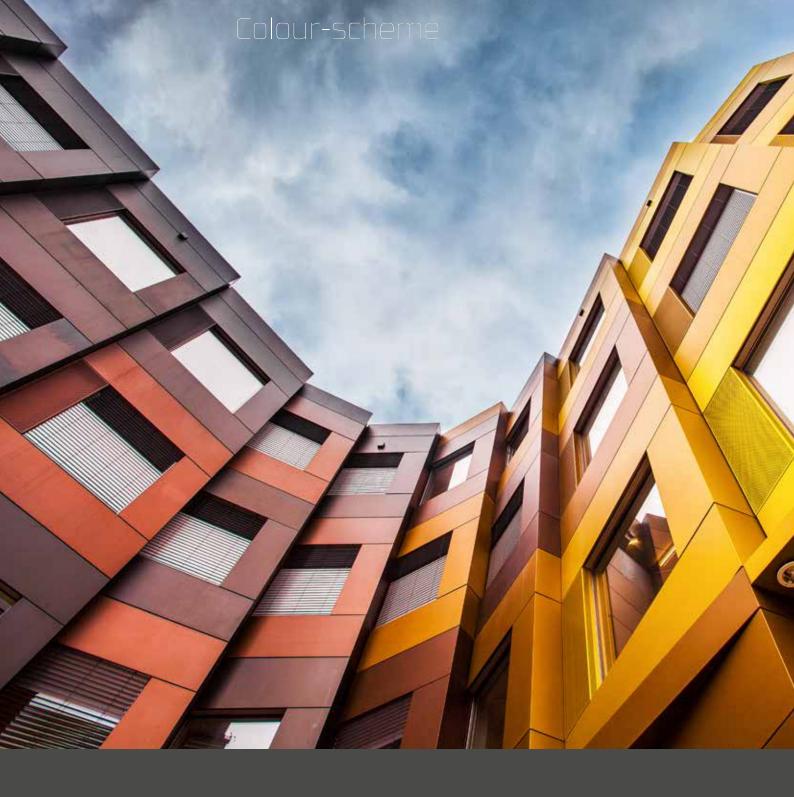
## Varnish

DAKO windows are three-layer varnished by applying PowerFeed - the innovative technology that ensures maximum protection of wood and emphasises the aesthetic values of the raw material.

## Handmade trims



Taking care of the finished products, the windows have the handmade trims that are essential to highlight the natural beauty of wood.



# COLOURS OF TIMBER PRODUCTS

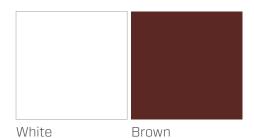
DURABILITY AND AESTHETICS

# **COLOURS OF WINDOWS AND DOORS**



#### Covering colours:

pine, larch, meranti



<sup>\*</sup>Not available in plate doors

#### Optional colours: -



Any RAL colour

# Global inspirations by DAKO

























# COMPREHENSIVE RANGE OF PRODUCTS FIND OUT MORE



#### Harmony | Comfort | Savings

Comprehensive range of DAKO products gives the clients a possibility to fully equip their houses with the joinery.

Close collaboration of technologists and designers responsible for particular product groups guarantees the aesthetic harmony of joinery in each house. Moreover, the technological compliance of all products is kept what is especially important in case of DAKO Smart Home systems. The possibility to calculate and buy all products in one sales point influences comfortable and efficient decision making what allows the clients to save their time and money.

#### **DAKO** folders







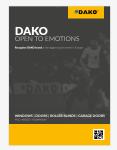


















TIMBER | Windows | Terrace doors | Exterior doors



**ALUMINIUM JOINERY** | Windows | Terrace doors | Exterior doors | Constructions | Facades



**ROLLER BLINDS** 



GARAGE DOORS | Sectional | Garage | Industrial



**TEXTILE ROLLER BLINDS** 



MOSQUITO NETS



**SMART HOME SYSTEMS** 

# DREAMS NEED AN IDEA...

That is why we created HarmonyLine - the idea whereby your dream of a beautiful home becomes a reality.

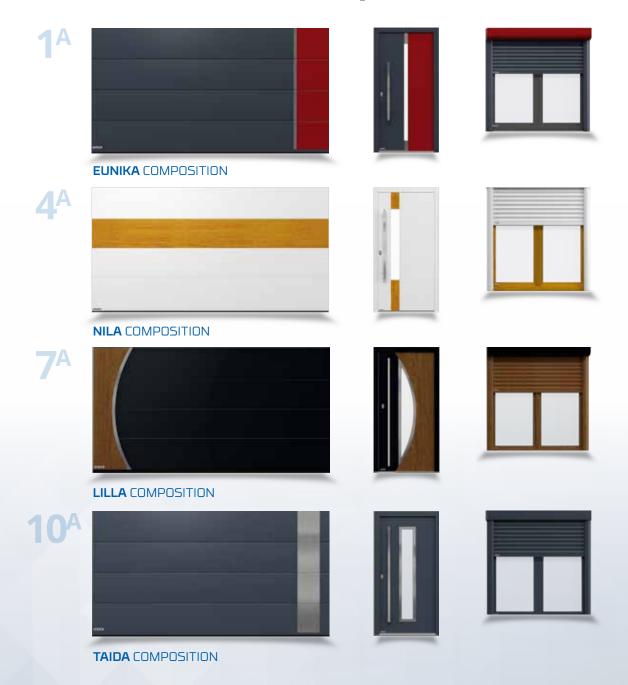
Visit our website and download HarmonyLine folder www.dako.eu



**HarmonyLine** is a unique idea of a common design of windows, doors, garage doors and roller blinds. This idea allows our clients to find a solution matching the individual character of the building.



# THE EXEMPLARY COMPOSITIONS OF HarmonyLine



# ...DEFINITE STEPS MAKE IDEAS ALIVE

Therefore, we designed **12 COMPLETE CARPENTRY SETS** of HarmonyLine, in popular configurations and dimensions.

- 12 ready-made compositions prepared by DAKO designers
- 5 colour variations of each set
- 3 materials: PVC, ALUMINIUM, TIMBER.



#### WINDOWS | ROLLER BLINDS | DOORS | GARAGE DOORS

PVC | TIMBER | ALUMINIUM



# Every single day around the world...

thousands of people test DAKO products in the most demanding testing ground – the laboratory of the real life. DAKO products are used, among others, by people of modern and exotic Japan or living in historical capitals of Europe as well as cold, far north and hot regions of Southern America.





**₫DAKO**°

Find out more: