





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

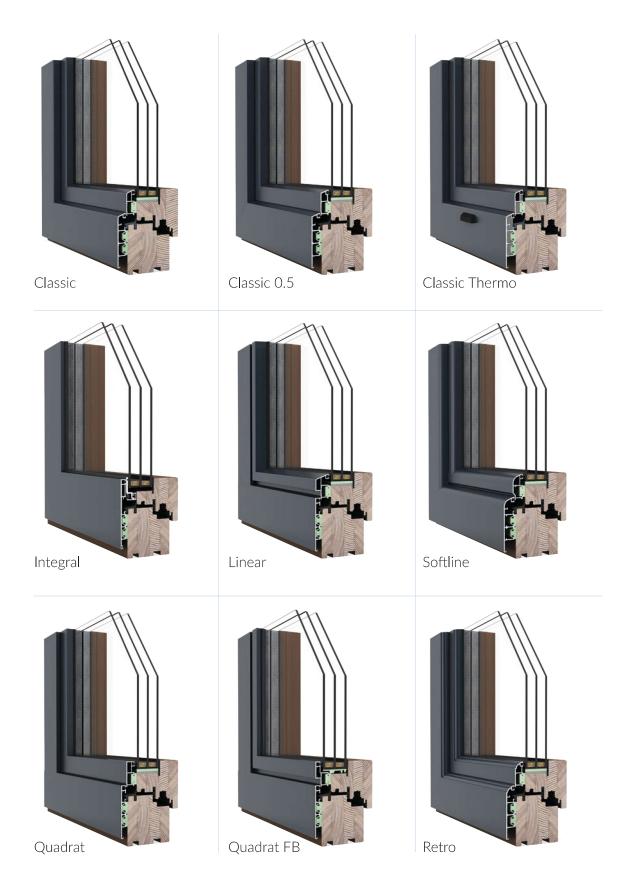


- **+ THE HIGHEST QUALITY** due to the combination of carefully selected wood with the use of aluminum profiles
- EXCELLENT THERMAL insulation parameters
- + **INCREASED PROTECTION** against the adverse effects of weather conditions
- **+ NO GLAZING BEAD** due to the use of innovative, dry glazing (with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

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



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



# **SERIES OVERVIEW** - technical information

INSTALLATION DEPTH	Profile 2 11/16in (68 mm)	Profile 3 1/16in (78 mm)	
PRODUCT FEATURES	THE IDEAL SOLUTION FOR IN- VESTMENTS AND MULTI-FAMI- LY HOUSING  • Attractive price • Good thermal and acoustic insulation	THE BEST CHOICE FOR DETACHED HOUSES  • High thermal and acoustic insulation • Optimal performance parameters • Durability and comfort of use	
WOOD SPECIES	PINE, MERANTI	PINE, MERANTI	
SERIES AVAILABLE	<ul><li>DDF - 68</li><li>DDR - 68</li><li>DDF - 68 AL (aluminum cladding)</li></ul>	<ul> <li>DDF - 78</li> <li>DDR - 78</li> <li>DDF - 78 AL (aluminum cladding)</li> </ul>	
	<ul><li>DDR - 68</li><li>DDF - 68 AL (aluminum cladding)</li></ul>	<ul> <li>DDR - 78</li> <li>DDF - 78 AL         (aluminum cladding)</li> </ul> ND ALUMINUM increases the durability	of
	DDR - 68     DDF - 68 AL     (aluminum cladding)  THE COMBINATION OF WOOD AI	<ul> <li>DDR - 78</li> <li>DDF - 78 AL         (aluminum cladding)</li> </ul> ND ALUMINUM increases the durability	of
AVAILABLE  U FACTOR	DDR - 68 DDF - 68 AL (aluminum cladding)  THE COMBINATION OF WOOD AI finish, it allows almost any design of  0.21 Btu/h·ft²·F (1,2 W/m²K) glass: 4/16/4; gas: argon; warm edge spacer; window size: 48 7/16in x 58 4/16in (1230 mm x 1480 mm)  Dimensions for a single sash tilt	DDR - 78 DDF - 78 AL (aluminum cladding)  ND ALUMINUM increases the durability f the facade aesthetics  0.16 Btu/h·ft²·F (0,89 W/m²K)  4/14/4/14/4; gas: argon, warm edge spacer; window size: 48 7/16in x 58 4/16in (1230 mm x 1480 mm)	

Triple glazing package (double glazing package in 68 series)

argon filling

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

# 78 MM

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

DDA -78

#### PINE, MERANTI

- 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·ft²·F (0,75 W/m²K)

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

#### 0.12\* Btu/h·ft²·F (0,65 W/m²K)

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

## **SELECTED HANDLE MODELS**









1006

1007

1009

1033







Hoppe Secustik New York



Hoppe Secustik Luksemburg







1006A with a key



Hoppe Secustik Luksemburg with a key

## HANDLE COLORS



# 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

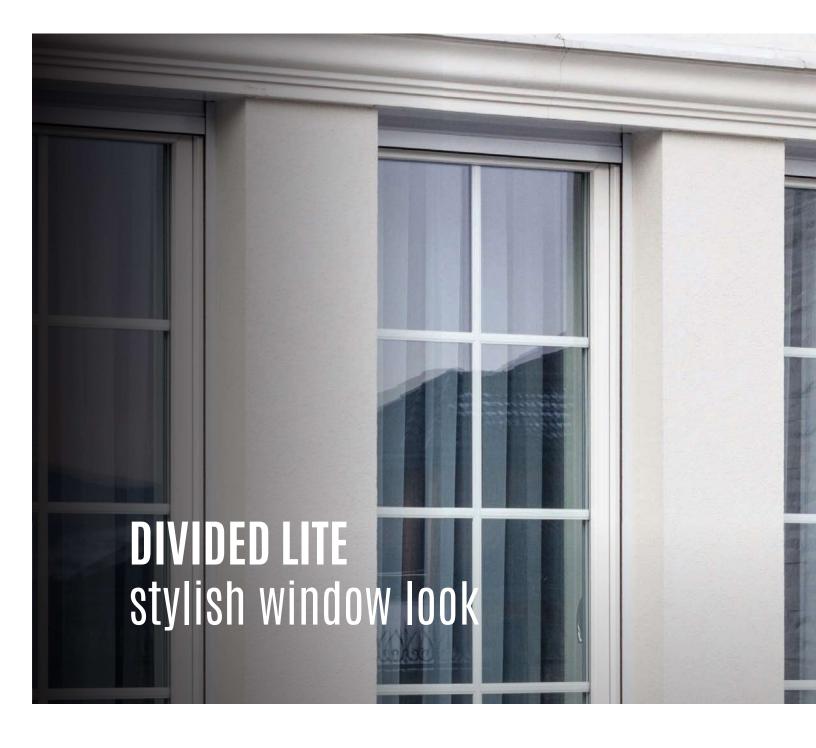
#### **DECORATIVE GLASS**











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!)

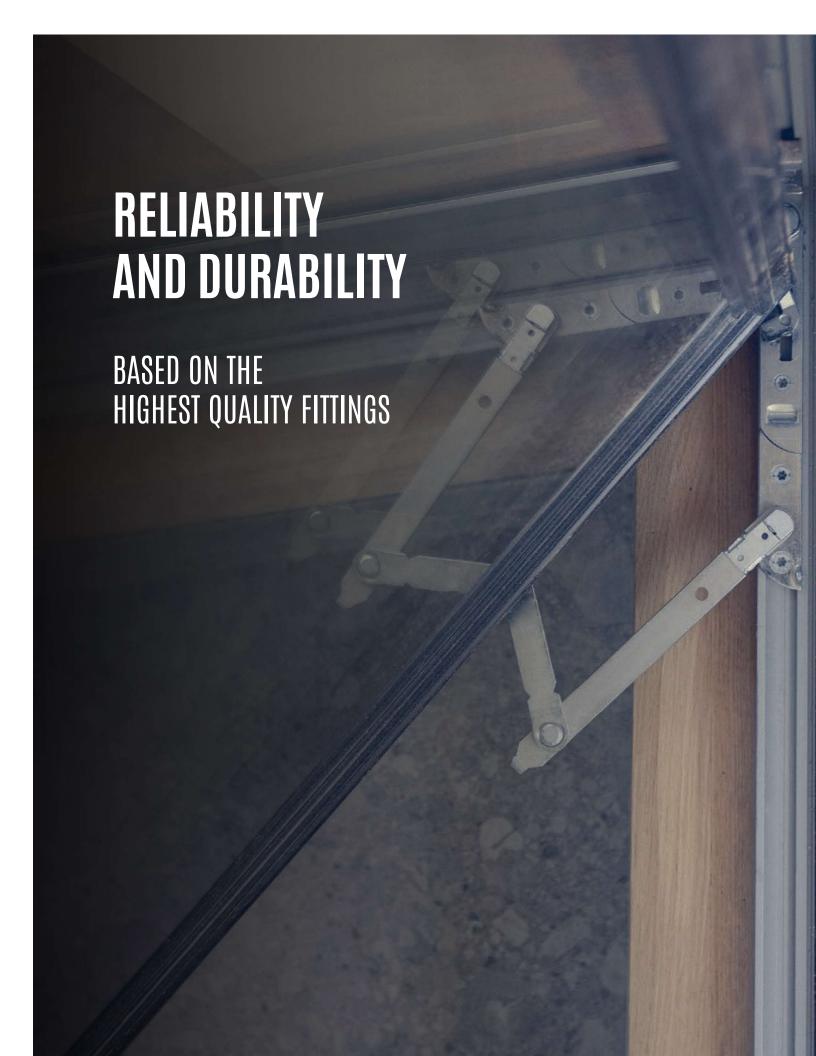
#### VIENNA **PANE BARS**

• 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.





#### WINDOWS / ACCESSORIES

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.