

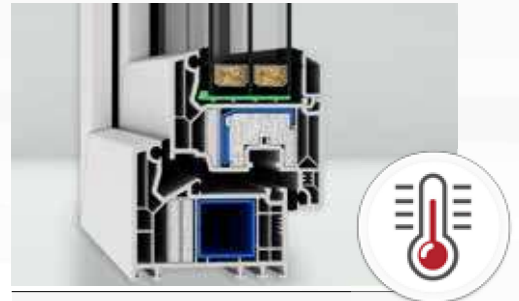
DPQ-82 thermoSecure

Unique energy efficiency, exceptional security

NOVELTY

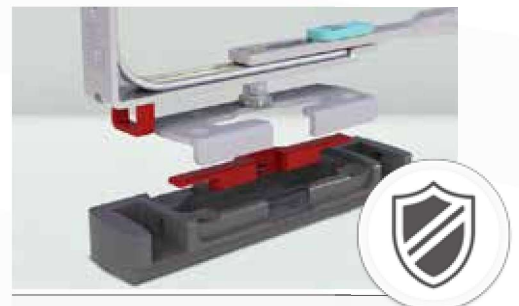
- ✓ Thermo-insulation technology available only in DAKO
- ✓ Anti-burglary protection available only in DAKO
- ✓ All advantages of DPQ-82 series

Flag series of DAKO windows constructed with the usage of unique thermal insulation and anti-burglary solution. The results of laboratory tests confirm excellent parameters of DPQ-82 thermoSecure windows.



TERMAL INSULATION

- 2 unique thermal inserts in frame
- 2 thermal inserts in sash
- Chromatech warm-edge spacer
- FL-KA hinge with pressure adjustment



SECURITY

- 2 anti-burglary catches in each sash
- One of 2 catches in RU sashes is the unique double-locking catch
- Secustik handle

DPQ-82 thermoSecure | Golden oak

U_w
0,77 W/m²K*





FITTINGS FUNCTIONS



STANDARD PLUS

The fitting has been equipped with two anti-burglary catches in each sash. In turn&tilt sashes one of the anti-burglary catches is the unique anti-burglary blockade with double lock available only in DAKO.

Additionally, the handle rotation blockade with lift mechanism influencing easy operation of this elements has been applied in this fitting.



TILT FIRST

The handle set horizontally tilts the window, while full opening requires the handle to be set vertically. In connection with TBT handle it allows to restrict the possibility of sash opening. Without the key it 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 them clean. A great advantage of the fittings is an easy regulation without using the tools.



SLOT VENTILATION

The system enables to achieve the distance of 6 mm between sash and frame what ensures efficient ventilation without radical cooling of the interior. During ventilation the fitting has an increased level of protection

against burglary and the vertical position of the handle does not show that the window is unsealed. The sash maintains stable po-

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. nic

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.

GLASSES



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

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

TECHNICAL PARAMETERS

Total solar energy transmittance: **g=51%**

Light transmittance: **Lt=72%**

Thermal permeability: **U_g = 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_g = 0,5 W/m²K**



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

 Characterised by high impact resistance. It is equipped with a filter protecting against high-energy fractions of sunlight and UV radiation.

TECHNICAL PARAMETERS

Safety class: **P4**

Total solar energy transmittance: **g=45%**

Light transmittance: **Lt=69%**

Thermal permeability: **U_g = 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_g = 0,6 W/m²K**



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

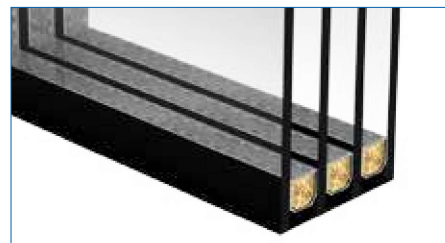
 Glass construction ensures high level of protection against burglary and increased acoustic insulation.

TECHNICAL PARAMETERS

Safety class: **P2**

Acoustic insulation coefficient: **R_w = 39dB**

Thermal permeability: **U_g = 0,7 W/m²K**



4-glass packet 4/12/4/12/4/12/4
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: **U_g = 0,3 W/m²K**

Total solar energy transmittance: **g=33%**

Light transmittance: **Lt= 48%**

WARM-EDGE SPACERS

 Warm-edge spacer improves thermal performance of the window.



Chromatech (standard for DPQ-82 thermoSecure, DPB-73 Thermo,



White



Light grey



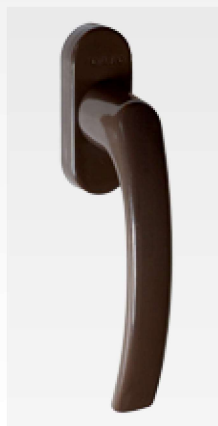
Light brown



Dark brown



HANDLES



1006 HANDLE ⁽¹⁾
(standard)



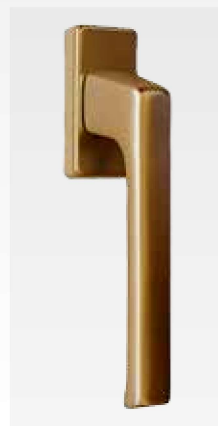
1007 HANDLE



1009 HANDLE



Vigilant HANDLE



1030 HANDLE



1033 HANDLE

NOVELTY
available only in DAKO



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.



Mila HANDLE

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 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
(only for secustik handles)



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



F4 - Old gold



RAL 7016
(dark grey) ⁽²⁾



RAL 9005 (black) ⁽²⁾

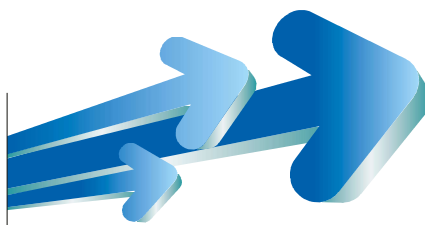
⁽¹⁾ handle 1006 available also in colours: RAL 7016 (dark grey), RAL 9005 (black)

⁽²⁾ available only for handle 1006 (standard) and 1006 with key



F2 - Champagne ⁽³⁾

INDIVIDUAL CHOICE OF WINDOWS



There are no two identical houses and each interior has its own character. DAKO, as the first Polish company, presents the comprehensive system of the Individual Choice of Windows which allows to treat each interior with the exceptional care.



EACH HOUSE IS DIFFERENT

INDIVIDUAL CHOICE OF WINDOWS - WHAT IS IT?

In order to apply the Individual Choice of Windows to the building we take into account the most important factors that influence the choice of technological solutions suitable for each interior. The floor, insolation, location of noise sources and interior type are those most important to be taken into account.

FLOOR



According to the police statistics, the ground-floor windows are more susceptible to burglary than the windows located on the higher floors. It concerns mainly the balcony windows. On the other hand, the windows located higher may put at the risk of falling the youngest members of the household.

✓ Carefully selected window fittings and accessories may help to reduce these risks by improving the householders' security.

NOISE



The noise of busy streets and other sources may significantly affect the comfort of living in a dream house. It deteriorates the quality of sleep and has a bad impact on our general condition. In case of the elevation exposed to the acoustic waves activity, the weakest link that transmits the sound are windows.

✓ Due to the installation of the acoustic glasses, the sound transmitted to the interior is reduced what improves the householders' comfort.

INSOLATION



Depending on the floor, the windows are subject to greater or lesser sunlight exposure. This has an impact on the quantity of light and UV radiation transmitted to the interior as well as on their heating up. As a result, the interior that are less sun-filled requires heating and lighting by the artificial light, whereas staying in those more sun-filled may be very uncomfortable during summer.

✓ A solution to the problem with the level of insolation is the installation of the glass that regulates the quantity of the daylight transmitted to the interior.

INTERIOR TYPES



Each interior has its own character resulting from its function. From the bedroom we expect an ideal microclimate during the rest, and the children's room should be free from any risks. The living room is a representative place where the aesthetic plays a key role, while the bathroom and kitchen are particularly exposed to moisture.

✓ Careful selection of the window allows to improve the comfort of living and to eliminate the inconveniences typical for a particular room.

1

Windows for the children's room

Maximal security



Floor:
1ST FLOOR



Interior type:
THE CHILDREN'S ROOM



Location:
SOUTH

WE USE: _____

Fitting - Tilt first

Glass - 4/14/4/14/33.1 | Handle - TBT with key

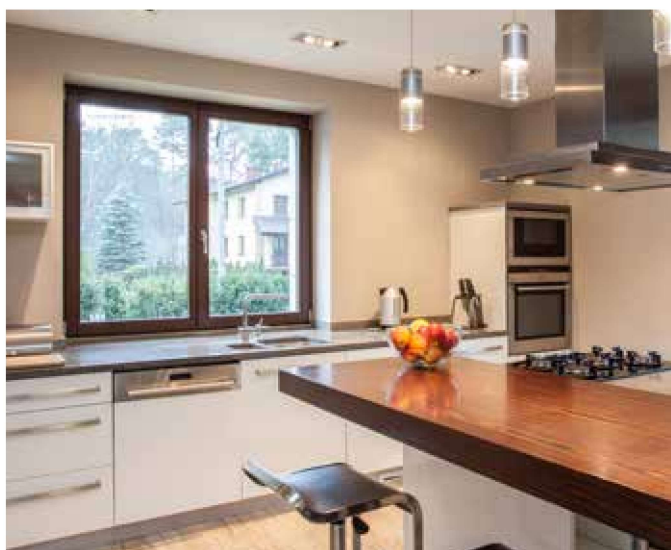
- ✓ Protection against falling out
- ✓ Protection against injury

- In the applied fitting, the handle rotation allows sash tilting but not its opening. In order to open the sash, the handle needs to be set in vertical position.
- Additional protection is the handle with key: when the window is closed with the key, only the function of sash tilting is available.
- In case of glass breaking, internal glass of the warm, welded packet protects against injury.

2

Windows facing the street

Silence and calm



Floor:
GROUND FLOOR



Interior type:
KITCHEN



Location:
EAST

WE USE: _____

Fitting - Slot ventilation

Glass - 44.2/12/6/12/6

- ✓ Effective absorption of solar heat
- ✓ Natural lighting

- Slot ventilation system applied in the window allows to safely and comfortably eliminate the moisture resulting from the kitchen works.
- During ventilation, the applied fitting maintains an increased anti-burglary class. Ventilation requires neither opening nor tilting the sash what makes the transmission of noise to the inside impossible.
- The acoustic glass of high P4 anti-burglary class provides the protection against the noises of the surrounding.

3

Windows for the living room

Exceptional class and elegance



Floor:
GROUND FLOOR



Interior type:
LIVING ROOM



Location:
SOUTH

WE USE:

Fitting - Invisible hinges

Glass - 44.4/14/4/14/4

- ✓ Exceptional aesthetics
- ✓ Increased security

- Innovative fitting with invisible hinges providing the exceptional aesthetics of the interior has been applied in the window.
- For increased security, the fittings have been equipped by additional anti-burglary catches. Glass in this packet is of high P4 anti-burglary class.
- The applied glass packet filters the high-energy fractions of solar radiation and UV radiation.

4

Windows for the bedroom

Comfortable and healthy sleep



Floor:
1ST FLOOR



Interior type:
BEDROOM



Location:
NORTH

WE USE:

Fitting - Slot ventilation

Glass -4/18/4/18/4

- ✓ Silent and energy-efficient ventilation
- ✓ Natural heat and light

- The slot ventilation system applied in the window allows for quiet and economical ventilation of the interior. It is particularly important in case of the bed room, where the possibility to provide the appropriate microclimate is a factor influencing the sleep quality.
- The applied glass allows to use the solar energy and transmits much more daylight. It is important in case of the northern exposure that is characterised by less lighting.

COLOURS



Durability and aesthetisc

COLOURS OF DOORS WITH ATTACHMENT PANEL

Standard colours



RAL3011



RAL5011



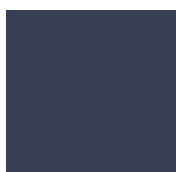
RAL6009



RAL7001



RAL7012



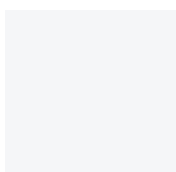
RAL7015



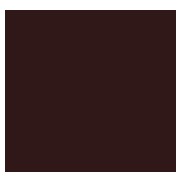
RAL7016



RAL9005



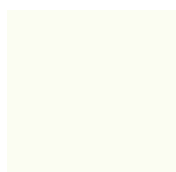
RAL9016



RAL8017



RAL9007



RAL9001

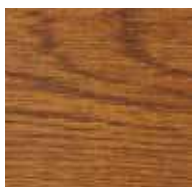
Optional colours



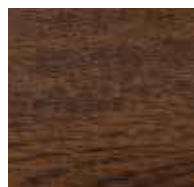
Any RAL colour

COLOURS OF WINDOWS AND DOORS WITH INSERT PANEL

Standard colours



Golden oak



Nut



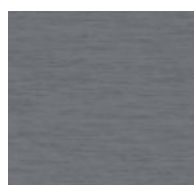
Winchester



Mahogany



Swamp oak



COLOURS OF WINDOWS AND DOORS WITH INSERT PANEL

Special colours ⁽¹⁾



creamy white



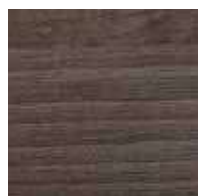
brown



light oak



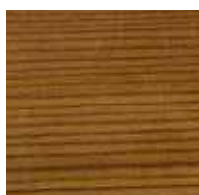
macore



siena noce



siena rosso



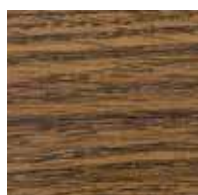
nuanced daglesia



mountain pine



oregon III



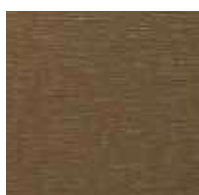
rustic oak



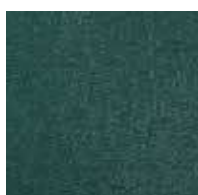
ruby



red-brown



platinum crown



green



dark green



cobalt blue



navy blue



light grey



agate grey



silver grey



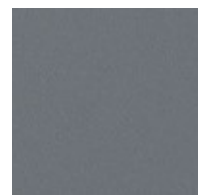
smooth silver grey



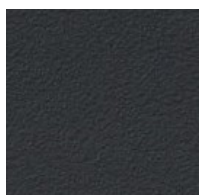
basalt grey



smooth basalt grey



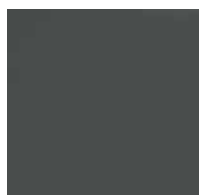
quartz grey



dark grey silk



black ⁽²⁾



dark grey ultramat⁽⁴⁾



White -9152.05 ⁽¹⁾



dark grey ALUX ⁽²⁾

Presented colours are for reference only and may vary from the real colours.

⁽¹⁾ In DPB-82, DPB-73 i DPB-73+ systems only standard colours, except for tabasco and white - 9152.05, are available.

⁽²⁾ Colour available only for DPP-70, DPQ-82/thermoSecure /AL series.

⁽³⁾ Sheffield oak colour unavailable only for DPE-70 i DPE-70+ series.