PVC Windows & Doors

Installation, Transport, After-sales Service provides!

PVC Windows & Doors

Tel: +46 411 244858
We import windows, doors, façades and conservatories. The company was founded in 2006. Our products are characterised by top quality confirmed by the international certificate of compliance with ISO 9001:2001.

We use manufacturing procedures based on modern technology and apply wide range of materials: different types of wood, variety of PVC- and aluminium profile systems as well as combined materials, such as wood-aluminium or PVC-aluminium.

Share your dreams with us and we’ll make them come true!
Thanks to the state-of-the-art computer controlled equipment we are able to produce more, better and cheaper.

We are proud of our highly professional staff who maintain a cooperative team spirit.

Their wide knowledge, hand-on experience and sometimes artistry make it possible for us to fulfil our customers’ special requirements so we are keen to take any challenges.
PVC, i.e. polyvinyl chloride, is a modern all-purpose material. Presently anyone can see it and constantly deals with it. We wear things containing PVC (trainers, outdoor clothes), drink water supplied by PVC piping, we use plastic-cased appliances. We also drive cars with lots of plastic components, and – looking into the wallet – we can see ... plastic money – made of PVC, too.

PVC is a material particularly suitable for windows. Window PVC-profile systems have been constantly perfected for years and now they are of very high quality so they successfully compete with windows made of other materials.

Advantages of Modern PVC Windows

- aesthetic appearance
- easy to operate and care for (virtually maintenance-free)
- safe and healthy
- effective in noise suppression
- weatherproof
- very durable
- environment friendly – fully recyclable
- heat-insulating and energysaving
- good quality-to-price ratio
### PVC Profile (Frame and Sash)
- durable, snow-white
- smooth surface easy to care for
- several chambers (3-6 depending on the shape type), ensuring good heat-insulating and sound insulating qualities
- greyish aesthetic gasket made of a high quality material (weatherproof and UV-proof) ensures window tightness

### Steel Reinforcement
- robust galvanized steel profile with wall thickness ranging from 1.8 to 2 mm, closed profile in the window frame, in the sash – channel bar
- ensures window rigidity and stability, warp resistance and hinders jemmying the window

### Window Fitting
- modern microventilation in each tilt/turn sash
- sash lifter which also prevents wrong position of the handle
- tilt interlock prevents self-closing of a tilted window due to the wind or draught
- wide range of adjustment ensuring tightness and easy operation of a window for years (hinges are adjustable in three planes, pressure force in catches is adjustable and so is the sash lifter)
- electroplated silver coating effectively protects the fitting from corrosion
- anti-jemmying catch on the window stile provides basic protection against break-in (more advanced design arrangements are also available)

### Windowpane
- heat-insulating (overall heat transfer coefficient $U_g=1.1 \text{ W/m}^2\text{K}$) combined: two glass sheets with inert gas (argon) interlayer insulation
- suppresses noise effectively (sound insulation at the level of $R_w=32 \text{ dB}$)
- crystal clear – allows excellent use of the solar light and solar energy and does not cause a ‘dirty curtain’ effect.
CLASSIC is a window of classic design and high functional quality. The window profile depth is 62 mm, which makes it rank high in its category.

It ensures good heat-insulating properties – the combined heat transfer coefficient of the window frame and sash is close to $U_f = 1.36 \, \text{W/m}^2\text{K}$ (depending on the type of both PVC profile and reinforcement).

CLASSIC window is also characterized by good stability, tightness and noise suppression. It is available in 3-chamber and 5-chamber versions with either plain or semi-faced sash. It may be provided with extra arrangements to enhance its heat-insulating and noise-suppression properties, anti-burglar resistance as well as its appearance.

CLASSIC window is an excellent solution where high quality is successfully compromised with the reasonable price.
CLASSIC Window System 3000 IQ

Technical data of the window profile

- Number of chambers: 3 (or 5 in CLASSIC PLUS version)
- Depth 62 mm

Heat-insulating qualities: ★★★★★
Soundproofness: ★★★★★
Stability: ★★★★★
Comfort: ★★★★★
Safety: ★★★★★

Window sections

- 3-chamber version regular
- 3-chamber version semi-faced sash
- 5-chamber version (CLASSIC PLUS)
TREND is a window of classic design which involves advanced technology. In terms of profile depth (74 mm) it ranks among the best PVC windows. It ensures good heat insulation – the combined heat transfer coefficient of the window frame and sash is close to \( U_f = 1.18 \text{ W/m}^2\text{K} \) (depending on the type of both PVC profile and reinforcement). Thanks to the large steel reinforced chamber, TREND window is sturdy, stable, and warp resistant. It also ensures good noise protection. TREND is available in 4-chamber and 6-chamber versions with either plain or semi-faced sash. It may be provided with extra arrangements to enhance its heat-insulating and noise-suppression properties, anti-burglar resistance as well as its appearance.

TREND window is highly recommended where stability and high performance requirements are of particular importance.
TREND Window System 8000 IQ

Technical data of the window profile

- Number of chambers: 4 (or 6 in TREND PLUS version)
- Depth 74 mm

- Heat-insulating qualities: ★★★★★
- Soundproofness: ★★★★★
- Stability: ★★★★★
- Comfort: ★★★★★
- Safety: ★★★★★

Window sections

- 4-chamber version regular
- 4-chamber version semi-faced sash
- 6-chamber version (TREND PLUS)
- 6-chamber version semi-faced sash (TREND PLUS)
COMFORT is a window of tasteful design and excellent functional quality. In terms of profile depth (74 mm) it ranks among the best PVC windows. COMFORT ensures excellent heat insulation – the combined heat transfer coefficient of the window frame and sash is close to \( U_f = 1.1 \text{ W/m}^2\text{K} \) (depending on the type of both PVC profile and reinforcement).

COMFORT profile has a special partition in the middle which is another anti-burglar barrier. The window has 5 chambers and is available in versions with either plain or semifaced sash. It may be provided with extra arrangements to enhance its heat-insulating and noise-suppression properties, anti-burglar resistance as well as its appearance.

COMFORT windows are highly recommended where high heat-insulating properties and anti-burglar resistance are of great importance.
COMFORT Window System 7000 IQ

Technical data of the window profile

- Number of chambers: 5
- Depth 74 mm

Heat-insulating qualities:

Soundproofness:

Stability:

Comfort:

Safety:

5-chamber version
simple sash

5-chamber version
semi-faced sash

5-chamber version
(Aluminium-covered)
The largest part of a window area falls on the windowpane. That is why its quality has a great effect on the window heat insulating qualities.

The diagram shows that poor quality windows contribute to heat losses substantially, which results in higher heating costs.

You can reduce your heating bills greatly by installing heat-insulating windows.

To achieve excellent heat-insulating qualities, we use modern technologies.

Heat losses’ percentage split (exemplary house before thermal insulation)

In our windows, panes filled with argon have the heat transfer coefficient \( U_g = 1.1 \text{ W/m}^2\text{K} \) and they are fitted as standard.

In some cases (e.g. in the so-called “passive construction”, where energy-saving qualities are of utmost importance, even better glass characteristics are required.

More expensive gases (krypton or xenon) are used or additional, i.e. the third, glass sheet is applied then. In the triple sheet set filled with krypton the heat transfer coefficient \( U_g = 0.6 \text{ W/m}^2\text{K} \) is achieved.
In our window profiles, a number of arrangements enhancing heat-insulating qualities are applied.

DXgrupp has also a range of Windows For Passive Construction, which meet very strict requirements concerning the heat-insulating qualities.

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DXgrupp PASSIV window is provided with an aluminium cover plate filled with polyurethane foam, thermally broken steel reinforcement and a triple windowpane. For such a window, the heat transfer coefficient is less than $U_w = 0.8 \text{ W/m}^2\text{K}$.

$U_w < 0.8 \text{ W/m}^2\text{K}$

1. Profile depth is crucial: the greater insulating volume, the lower energy losses
2. The profile is divided into chambers which additionally improve heat insulating qualities (1-V)
3. The steel reinforcement adheres to the spacers rather than to the transverse ribs thus creating additional air layers reducing the heat flow

The steel reinforcement may be fabricated with thermal plastic spacers.

The Number Of Chambers Isn’t Everything

Application of additional chambers has a good effect only when the profile depth is increased, too. Division of a narrow profile into smaller chambers is hardly effective.
DXgrupp windows allow you to retreat from the ambient noise and relax in the seclusion of your own home. Noise feeling in a room is subject to the following rule: if the noise level in the room falls by 10 dB against the ambient one, it gives an impression that the noise is half the actual level.

As standard, our PVC windows ensure good noise suppression to the level of Rw=32 dB. Where the noise level is high (e.g. in busy streets, near airports) we recommend that special window sheets of higher sound absorbing qualities be applied. The sound-proofing qualities of such sheets may range from 34 to 51 dB.

**Tightness And Ventilation**

Modern DXgrupp`s PVC windows are characterised by excellent tightness which is very advantageous in terms of heat-insulating qualities, thermal comfort and noise suppression.

Sturdy and stable profile, high quality gaskets, widely adjustable fittings and professional assembly guarantee complete tightness of the window which, however, must be accompanied by adequate ventilation, otherwise lack of the change of air results in worse comfort, humidity rise, water condensation on windowpanes, and – in the worst case – even fungal attack.

A good and proven method of air change is regular wide opening of the windows and airing the room for 10-15 minutes twice a day. In that case, heat losses have to be taken into account, but dehumidified air will warm up to the room temperature soon after the window is closed (unlike humid air, which is more difficult to be heated).

In DXgrupp`s windows, all tilt-turn sashes are provided with special arrangements for the ventilation function which enables continuous mild airing of the room. It consists in slight tilt of the window (some 10-12 mm), just positioning the handle properly.

To control the change of air, our PVC windows may also be fitted with automatic window ventilators which are effective even when the window is closed.

A simple and effective window ventilator arrangement, commonly applied in Dxgrupp`s PVC windows is GECCO. This is a mechanical arrangement which controls the air flux. If the air flux is too high (e.g. due to strong wind or draught), the flap situated in the intake ventilator automatically closes a little thus preventing an uncomfortable draught.

GECCO window ventilator is available in two versions. The external one is installed in CLASSIC and TREND windows on the upper part of the sash. The internal version is installed in COMFORT windows; it is hidden in the frame which makes it invisible.

AERECO hygro-operated window ventilators are the most advanced arrangement. They react to the air humidity in the room. Where the humidity is too high, the ventilators open and enable the change of air. After the optimum humidity has been achieved, window ventilator closes automatically.
WE PROVIDE QUALITY & SERVICE IN EVERY ASPECT

DXgrupp