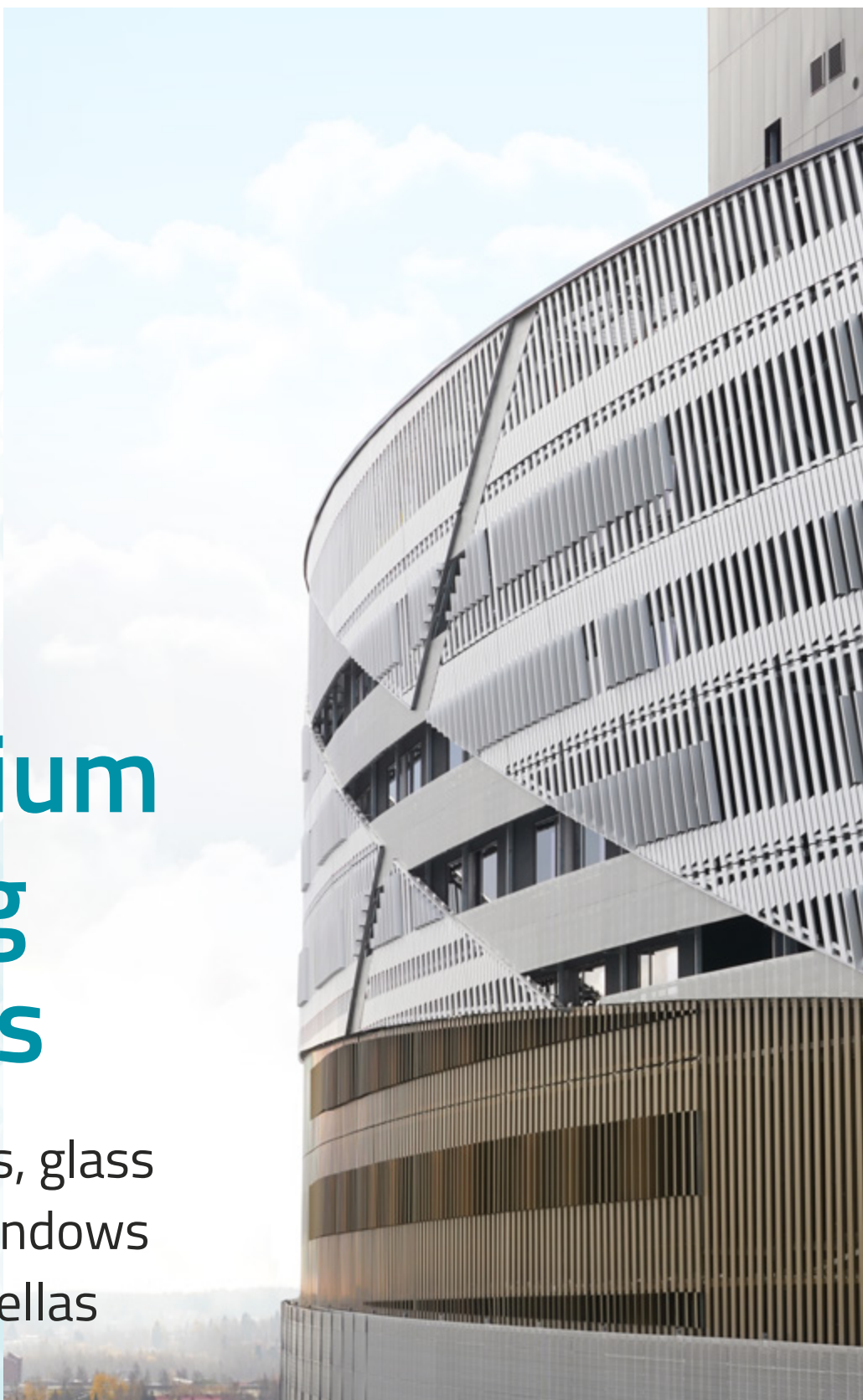


Aluminium building systems

Facade systems, glass
roofs, doors, windows
and facade lamellas



A success story spanning more than six decades

Purso's story began in 1959 when chemical engineer Esko Ollila realised that there were no Finnish companies anodising long aluminium pieces. Anodising as a process and aluminium as a material were familiar to Ollila from clockfaces and pot lids, but the pioneer-in-the-making also saw the wider potential of the versatile material.

Esko Ollila concluded that there was a demand to be met. He established an aluminium surface treatment facility in Siuro and set out to conquer the market with no more than five employees. Soon, the operations were expanded to encompass aluminium extrusion, and the first extrusion line was commissioned in 1974.



- **2019** Purso Group acquires the stock capital of Dutch company Nedal Aluminium B.V. The transaction doubles Purso's production capacity and opens up new market areas in Central Europe.
- **2016** Purso introduces the Finland's first product line featuring recycled aluminium.
- **2012** New anodising facility, waste water treatment plant and bio-heating center are established.
- **2010s** New business unit Purso Lighting Systems designs and develops the intelligent SNEP lighting system.
- **2009** The first extrusion line is renewed; a business park is constructed for subcontractors.
- **2002** Expansion of the aluminium plant and installation of the third extrusion line are finished.
- **1990s** Powder coating is introduced as a surface treatment method, new processing facilities are built.
- **1972** The aluminium plant is expanded twice. New headquarters are built in Siuro and a refinery is built in Ikaalinen.
- **1959** Purso Oy is founded, and the first extrusion line is established in 1974. Purso Group starts operations with construction (Suojapinta Oy, 1959) and anodizing (1960).



The first extrusion line was introduced in Siuro, Nokia in 1974.

Building systems

High-quality building systems are a long-lasting, ecological and cost-effective choice. Developed in Finland, Purso's building system products are designed to meet the demanding climate of Northern Europe and offer versatile design options. We offer solutions for unitized facade systems, facades, doors, windows, glass roofs and facade lamellas.

Purso's products are developed and manufactured in Finland.



Certified ecological quality

Purso Oy is committed to efficient quality and environmental management. Lloyd's Register Quality Assurance Ltd. has granted Purso Oy the EN ISO 9001 and EN ISO 14001 certificates. Purso's construction systems have been granted the Russian GOST R certificate. Purso's powder painting plant is entitled to use the German GSB quality label.

Purso Oy develops and markets profiles and supplies for building systems. The end-products are manufactured and sold by independent manufacturers.

Surface treatment

Anodising

Anodising is an electrochemical method for increasing the thickness of the natural oxide layer in aluminium. Anodising forms a hard, wear-resistant surface with excellent weather endurance properties.

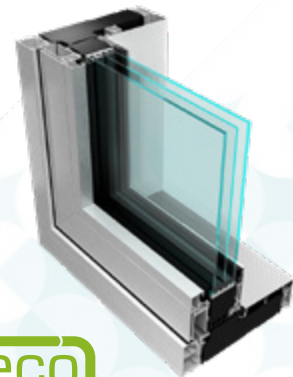
Powder painting

A powder is sprayed on the profile surface and then melted into a durable, even coating. Before painting, the profiles are pre-treated to ensure that the paint stays on. RAL tones are usually used, but other colours are also possible.

ECO product line

Purso's ECO product family is the most energy-efficient choice for windows as well as lift and slide doors. The products' thermal insulation is among the best in Europe, their functionalities can endure any weather conditions and their versatility leaves room for creative visions of the architect.

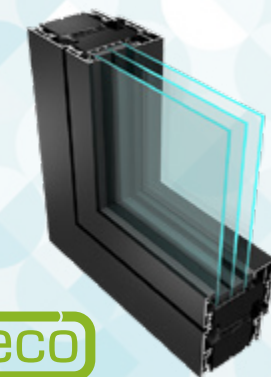
ECO products LK90eco (excluding LK90eco EI30) and LK100eco are Passive House Institute (PHI) certified.



ECO Lift and slide doors

High-quality one- and two-leaf ECO lift and slide doors are equally well-suited for balconies, terraces, and landscape window solutions. Our slide doors feature minimal maintenance and high accessibility thanks to their low-profile threshold.

- U-value of the lift and slide door as low as 0.65 W/ m²K
- Door leaf depth 100 mm, frame depth 230 mm
- The inside and outside surfaces can be different colours
- Acoustic performance: R_w (C; Ctr) max. 44 (-1; -5) dB



ECO Window systems

Featuring ease of use and high durability, our ECO window systems are well-suited for inward and outward opening plus fixed windows, tilt and turn windows, double windows without middle posts, and French casement doors. The hinge can be installed on any side of the window.

- U-value of the window up to 0.64 W/m²K
- Thickness of IGU or panels 29–78 mm
- Frame depth 90 mm
- Inside and outside surface of profiles can be in different colours
- Hidden hinges, only handle is visible

Unitized facade systems



P65E / P65ES

Unitized facade system



Perfect for facade construction, Purso's new unitized systems are easy to install and handle on the construction site. The P65E features a stylish look that blends into the facade both on the inside and outside without a visible sealing seam. Made from 100 % recycled aluminium, the element is thermally insulated and endures any weather condition. The P65ES can be utilized to achieve near-seamless glass surfaces thanks to its surface-listless design. Vertical and horizontal lines can also be emphasized with surface lists. The systems are always customized to meet your demands.

- Airtightness AE 1200 (EN 12152)
- Water resistance RE 1650 / RE 1800 (EN 12154)
- Wind pressure resistance 1600 (EN 13830 and EN13116)
- Double or triple IGU glazing or facade glazing with bonding
- New profile shapes can be custom-made quickly and cost-effectively
- Standard frame width vertical 64–68 mm, horizontal 80–100 mm
- Standard frame depth 120 mm

Facade lamella systems

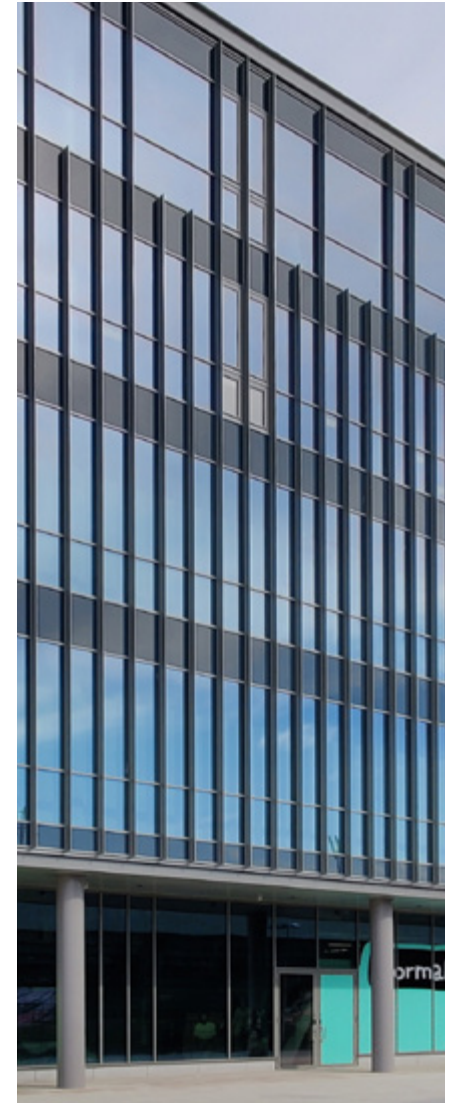


NAPSU facade lamella system

NAPSU is a high-quality facade and sun protection system with quick and easy installation. The system offers almost infinite options for designing and implementing aluminium facades that interact with colour, light and shadows. The lamellas can be mounted vertically, horizontally or at a skew angle.

- Wide range of different shapes and sizes
- Easy and quick mounting of lamellas with the NAPSU mounting profile
- Custom lamellas available quickly and cost-effectively
- The NAPSU system is compatible with P50L cover profiles

Facades

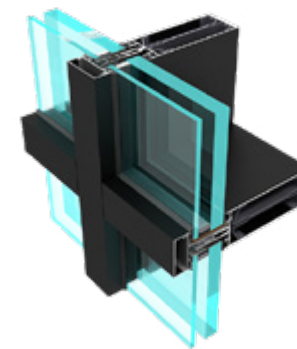


P50S

Structural glazed facade system (SG)

The P50S is a thermal insulated aluminium facade system. The inner glass is mechanically attached to the frame while the outer and middle glass are bonded with no surface lists. When using a reflecting glazing, the bonding surface is not visible on the exterior of the glass.

- Frame profiles from the P50L system
- Glazing with double or triple IGU or as facade glazing
- Inner glass is mechanically attached to the frame, outer and middle glass are bonded
- Exterior may be partially glazed with glazing beads
- Top-hung, outward opening SG window

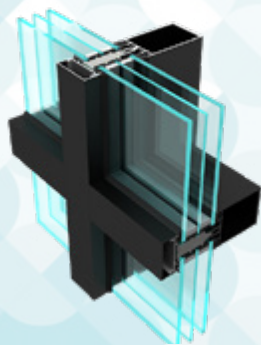


P50L EI30/EI60

Fire resistant facade

A stylish, thermal insulated and fire resistance classified facade system. Glazing can be implemented with double or triple IGU or as facade glazing. Frame profiles from the P50L system feature steel reinforcements.

- Fire resistance classifications EI30 and EI60
- Classification reports according to standard EN 13501-2
- Mullions 120–180 mm
- Transoms 127 mm
- Inward and outward opening windows with fire resistance classification EI30
- CE-marking according to standard EN 13830

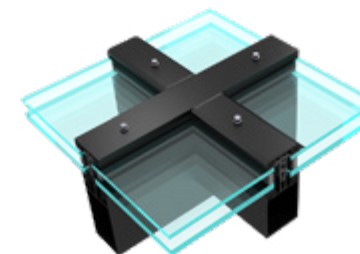


P50L/P50LE/P60L

Facade system

With a frame width of 50 or 60 mm, our thermal insulated systems are perfect for facades, light ceilings and interior glass walls. The self-supporting aluminium frame can withstand wind pressure and the weight of the glazing, but it can also be mounted to other supporting structures. The facade systems are compatible with Purso doors and windows.

- Depth 5–250 mm
- Two-component sealing strips in the frame
- Glazing with double or triple IGU or as facade glazing
- Frame Uf-value starting from 0.65 W/m²K
- P50L burglar resistance RC2 / RC3
- CE-marking according to EN 13830



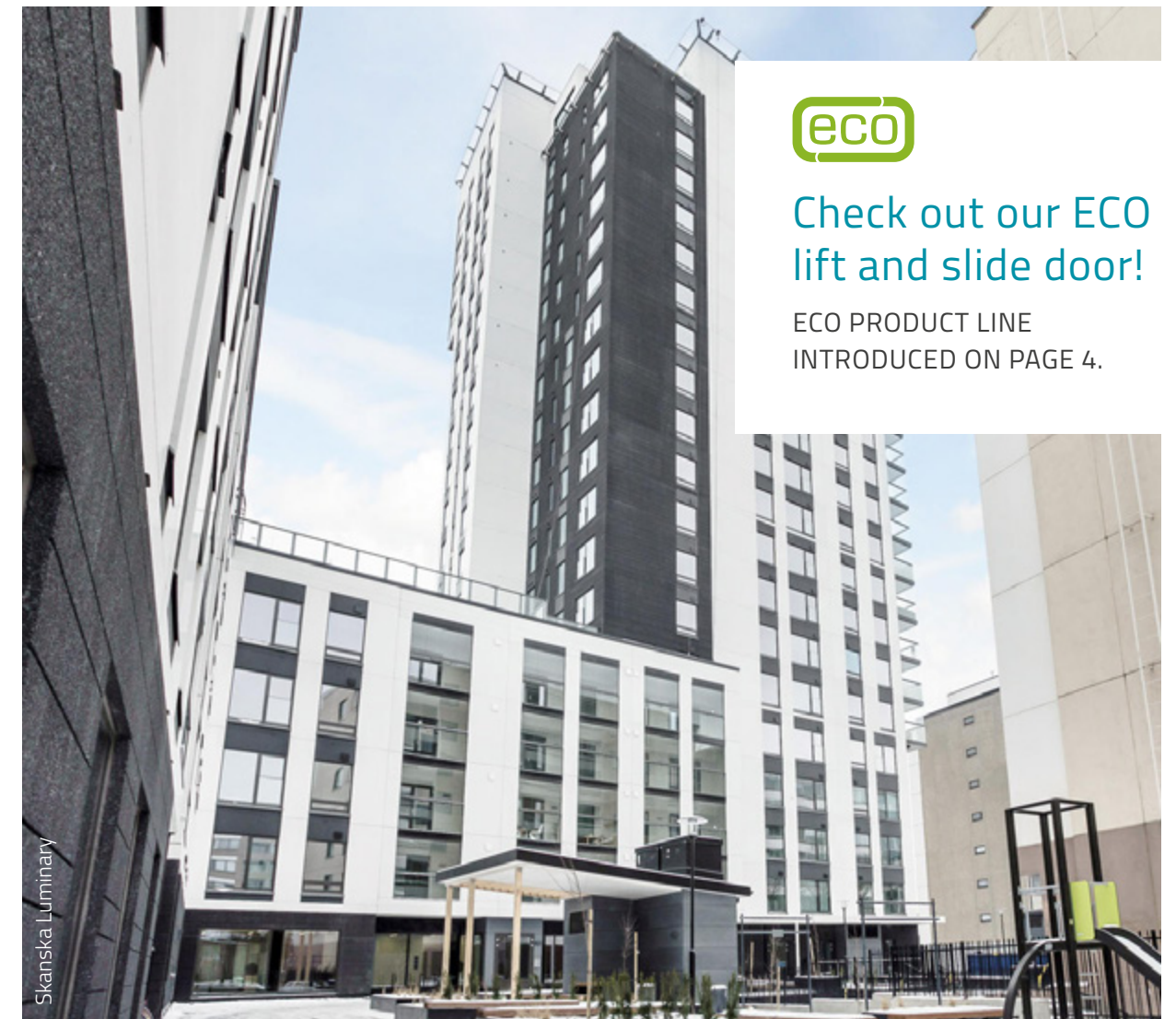
P50L

Glass roof

The aluminium frame of our thermal insulated glass roof system is self-supporting in small roof applications. With larger roof structures the frame profiles are mounted on supporting structures. The frame profiles feature channel profiles for ventilation and water removal.

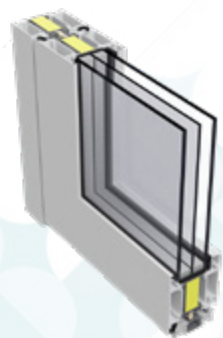
- Frame width 50 mm, frame depth 40–80 mm
- Glass thickness 6–62 mm
- Frames for roof lanterns with adjustable angle
- Custom profile shapes available quickly and cost-effectively
- Thermally insulated ventilation window

Doors



Check out our ECO lift and slide door!

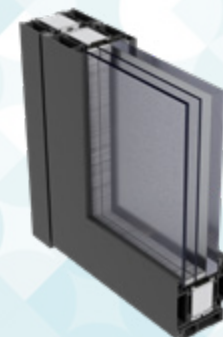
ECO PRODUCT LINE
INTRODUCED ON PAGE 4.



LK78X/LK78 Insulated doors

Our inward and outward opening doors combine stylish looks with excellent heat insulation and usability in all weather conditions. Purso's aluminium door system is equally suited for entrances, sliding doors as well as vestibules. The inside and outside surfaces of the frame profiles can be in different colours. Custom profile shapes can be manufactured quickly and cost-effectively.

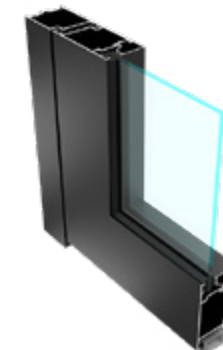
- Premium heat insulation and tightness
- Excellent soundproofing
- U-value even below 0.8 W/m²K
- Easy maintenance in all weather conditions
- Modular system



P94 Insulated fire doors

Our stylish and CE-classified exterior door is a safe choice for applications that require EI_{2,30}-certified fire doors. Doors slow down the spread of fire inside and outside of a building thus also protecting the surroundings from fire damage. A sturdy fire door also features premium heat insulation and maintains its usability in any weather condition.

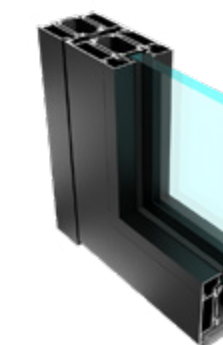
- CE marking according to EN 13501-2 and EN 16034
- Fire resistance classification EI_{2,30}
- Excellent thermal insulation
- U-value below 0.9 W/m²K
- Can be mounted on PL50L EI30 facade



P50 Uninsulated doors

Our uninsulated door system offers options for interior doors, finger guard doors, manual or machine-operated sliding doors, vestibules and interior glass wall doors. They can be installed as inward and outward opening doors or two-leaf doors with a top or side light. Despite their lightness, the system's profiles are manufactured from durable and sturdy extruded aluminium.

- Thickness of single glass, IGU or panel 3–33 mm
- Frame depth 50 mm
- Doors with surface mounted or butt hinges
- Maximum weight of one door leaf 100 kg



P80 Fire doors and partitions

Partitioning fire doors and two-leaf doors with thermal insulation. The panel sections feature aluminium or steel sheets with plasterboard in between. The glazing is implemented with fire glass. The P80 door is designed for indoor use and is suited for doors with top or side lights, partition walls and fixed windows.

- Fire resistance classifications E30, EI_{2,30} and EI_{2,60}
- Certified by Eurofins Expert Services Oy in Finland
- Glazing with single fire glass or double glass units
- Panel sections have aluminium or steel sheets with plasterboard in between
- Thermally insulated frame profiles

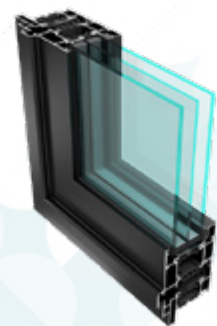
Windows



See also our
ECO windows!

ECO PRODUCT LINE
INTRODUCED ON PAGE 4.

Terraces

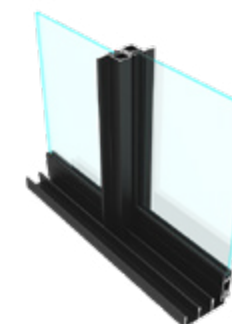


LK78/LK78X

Insulated window systems

Aluminium window system that features excellent thermal insulation. Well-suited for inward and outward opening windows, fixed windows and smoke ventilation hatches. The inside and outside profile surfaces can be in different colours, and side-hung plus tilt-and-turn hardware is available. The LK78 features low maintenance and performs equally well in any weather condition.

- Window U-value even under 0.9 W/m²K
- Thickness of IGU or panels 21–61 mm
- Frame depths 78 and 145 mm
- Frame width 30–150 mm
- Maximum weight of one sash 100 kg



Purso Terrace glazing system

With the Purso Terrace Glazing System you can create comfortable and sheltered extra space on your terrace. You are protected from the rain and wind and can enjoy your terrace in any weather or time of year. You can choose from several different locking systems. Vertical profiles are available with one- or two-sided handle, or no handle at all.

- Timeless design
- Year-round sheltered terrace
- Smart, integrated solution
- Easy to install and use



P50

Uninsulated window systems

The window system's profiles are made from sturdy and durable extruded aluminium that weighs only one third of a similar steel structure. This uninsulated system is suited for inward opening and fixed windows, interior glass walls and rails.

- Thickness of IGU or panels 3–33 mm
- Frame depths 50, 80 or 100 mm
- Frame widths 20–150 mm
- Maximum weight of one sash 100 kg

Other products

Customer Systems

Building systems can also be produced as customised customer products. If the customer has a vision for a product, we are ready to make it into reality. Building-specific applications are designed in close co-operation with customers. A successful end result starts with brainstorming and an exchange of ideas between the customer

and experienced Purso sales representatives. This way the customer gets an optimal system at the right price.

The customer can also consult with Purso at an early stage of the design to ensure the best possible results.

Contact us!

Easy design with PursoCal

PursoCal is an easy and effective design tool for the users of Purso's building systems. It offers a quick and easy solution for daily planning, dimensioning and manufacturing. PursoCal calculates required materials, manufacturing costs and U-values for doors, windows, facades and other products.

- PursoCal calculates the total costs of your projects
- Changes can be made to previously designed structures easily and quickly
- Different cost types are itemised and presented clearly
- The user can specify the additional costs due to material loss or let the software calculate them.
- PursoCal can be used online
- The software, databases, works and settings are centralised on a server

