Aluminium building systems
Facades, glass roofs, doors, windows and louvre slats
P50L/P50LE Facade system
- frame width 50 mm, also available as P60L with a width of 60 mm
- depth 5–250 mm
- 2-component sealing strips in the frame
- glazing with double or triple IGU or as facade glazing
- frame U-value starting from 0.65 W/m²K
- Purso doors and windows can be easily mounted to the facade systems
- CE-marking according to EN 13830

Fire resistant facade
- fire resistance categories EI30 and EI60
- classification reports according to EN 13501-2
- frame profiles from the P50L system
- mullions 120–250 mm
- transoms 127 mm
- steel reinforcements inside the frames
- glazing with double or triple IGU or as facade glazing
- inward and outward opening windows with fire resistance classification EI30

Structural glazing (SG)
- 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
UNIQUE APPEARANCE FOR THE BUILDING
WITH DESIGNED ALUMINIUM PROFILES.

P50L

Glass roof
• frame width 50 mm
• depth 40–180 mm
• special channels for ventilating the rebate space of the profiles
• transoms can be equipped with channel profiles for condensation water
• frames with adjustable angle for roof lanterns
• thermally insulated ventilation window

NAPSU

Louvre system
• facade and sun protection system
• mounting horizontally, vertically or at a skew angle
• easy and quick mounting of slats with the NAPSU mounting profile
• wide range of different slats in different sizes
• customised slats available quickly and cost efficiently
• P50L cover profiles can also be attached to the NAPSU system
Highly insulated doors
- door U-value even under 0.9 W/m²K
- thickness of IGU or panels 21–61 mm
- frame depth 78 mm
- inside and outside surface of profiles can be in different colours
- surface mounted or butt hinges
- maximum weight of one door leaf 120 kg

Applications:
- inward and outward opening doors/two-leaf doors
- doors with top or side light

Insulated doors
- door U-value starting from 1.1 W/m²K
- thickness of IGU or panels 21–61 mm
- frame depth 78 mm
- inside and outside surface of profiles can be in different colours
- surface mounted or butt hinges
- maximum weight of one door leaf 120 kg

Applications:
- inward and outward opening doors/two-leaf doors
- doors with top and/or side light
- sliding doors
- air locks

Balcony doors
- door U-value even under 0.9 W/m²K
- thickness of IGU or panels 33–73 mm
- frame depth 90 mm
- inside and outside surface of profiles can be in different colours
- surface mounted or butt hinges
- maximum weight of one door leaf 120 kg
- Euro Groove for standard hardware
- multipoint locking
- hold-open to stay in ventilation position

Applications:
- outward opening balcony doors and two-leaf balcony doors
- balcony doors with top or side light
P80 insulated fire door

P80

**Doors ( uninsulated)**
- Thickness of single glass or IGU or panel 3–33 mm
- Frame depth 50 mm
- Surface mounted or butt hinges
- Maximum weight of one door leaf 100 kg

**Applications:**
- Inward and outward opening doors/two-leaf doors
- Doors with top and/or side light
- Sliding doors
- Air locks

**Fire doors and partitions**
- Fire resistance classification EI 30 and EI 60
- Type approval by VTT in Finland
- Glazing with single fire glass or double glass units
- Permitted glass dimensions vary by glass type
- Panel sections have aluminium or steel sheets with plasterboard in between
- Thermally insulated frame profiles
- Frame depth 80 mm

**Applications:**
- Doors and two-leaf doors
- Doors with top and side light
- Partition walls and fixed windows

PURSO SUNFLEX

**Folding doors (SF50, SF55 and SF75)**
- Insulated and uninsulated system options
- Door U-value starting from 1.0 W/m²K
- Frame depth 50, 55 or 75 mm, depending on the system
- Panel distribution and folding direction of panes can be chosen freely
- Easy assembly of elements
- Maximum door leaf height 2,800 mm
- Different threshold solutions available

**Applications:**
- Balcony doors and inner doors
- Inward and outward opening doors
Windows

LK90eco window system

LK75eco window system

LK78H window system

LK90eco

Window system
• window U-value starting from 0.66 W/m²K
• certified by Passive House Institute
• thickness of IGU or panel 29-73 mm
• frame depth 90 mm
• inside and outside surface of profiles can be in different colours
• visible or hidden hinges
• side-hung, tilt & turn and slide hardware available
• maximum weight of one sash 100/130 kg

Applications:
- inward opening and fixed windows
- French casement doors
- double window without middle post
- sliding windows

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- sliding windows

Applications:
- inward and outward opening windows
- smoke ventilation windows
- fixed windows

LK75eco

Window system
• window U-value starting from 0.77 W/m²K
• thickness of IGU or panel 14-58 mm
• frame depth 75 mm
• inside and outside surface of profiles can be in different colours
• visible or hidden hinges
• side-hung, tilt & turn and slide hardware available
• maximum weight of one sash 100/130 kg

Applications:
- inward opening and fixed windows
- French casement doors
- double window without middle post
- sliding windows

LK78H

Window system
• window U-value even under 0.9 W/m²K
• thickness of IGU or panel 21-61 mm
• frame depth 78 mm
• inside and outside surface of profiles can be in different colours
• side-hung and tilt & turn hardware available
• maximum weight of one sash 100 kg

Applications:
- inward and outward opening windows
- smoke ventilation windows
- fixed windows
Windows and terrace

**LK78 Window system**
- window U-value starting from 1.0 W/m²K
- profiles similar to LK78H but without additional insulation
- thickness of IGU or panel 21-61 mm
- frame depth 78 or 145 mm,
- frame depth 30–150 mm
- inside and outside surface of profiles can be in different colours
- side-hung and tilt & turn hardware available
- maximum weight of one sash 100 kg

**Applications:**
- inward and outward opening windows
- smoke ventilation windows
- fixed windows

**P50 Uninsulated windows, partitions and rails**
- Thickness of single glass or IGU or panel 3–33 mm
- frame depth 50, 80 or 100 mm,
- frame depth 20–150 mm
- side-hung and tilt & turn hardware available
- maximum weight of one sash 100 kg

**Applications:**
- inward opening and fixed windows
- partition walls and side lights for doors
- rails

**Purso-Riikku-terrace Terrace glazing system**
- set of uninsulated sliding door profiles
- maximum door element height with 6 mm glass: 3,500 mm (with 4 mm glass: 2,500 mm)
- slide rails with 2–5 vertical profiles available
- the bottom rails are inclined outwards for drainage
- different locking systems available
- easy to mount and use
- horizontal profile available for door elements
- brush seals between glass elements
- vertical profiles without handle, with handle on one side, or with handles on both sides
Other products
- Panels
- Louvre slat profiles
- Alline ceiling
- Standard profiles

Special profiles
Custom-designed profiles enable unique constructions at low cost.

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.

Materials

Aluminium profiles
- lightweight, durable material
- good corrosion resistance
- easy maintenance
- typical alloy EN-AW 6063
- easy to recycle

Sealants
- EPDM rubber

Thermal breaks
- PA66+ 25% GF
- PVC

Logikal
Logikal is a software solution for the day-to-day design, measurement and manufacture of aluminium structures. Logikal database is implemented in co-operation with Orgada of Germany.

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.

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For more information about the system, see our product folder and website www.pursobuilding.fi.

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