

aliplast
aluminium systems

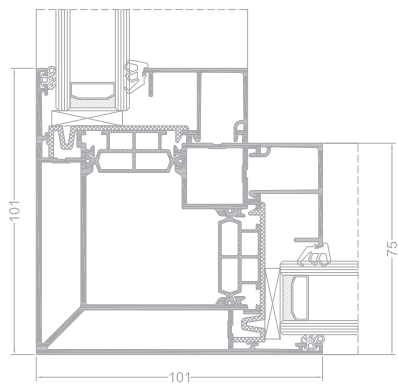
SP

SP i, SP i+, SP SU, SP OUT, SP 800 i+

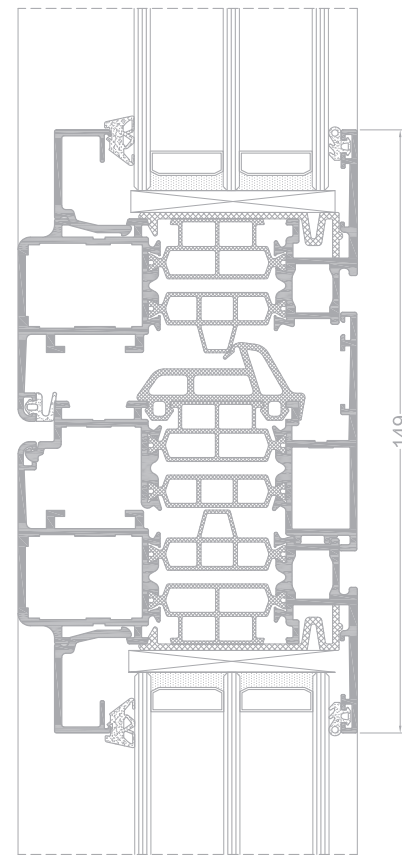
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SUPERIAL

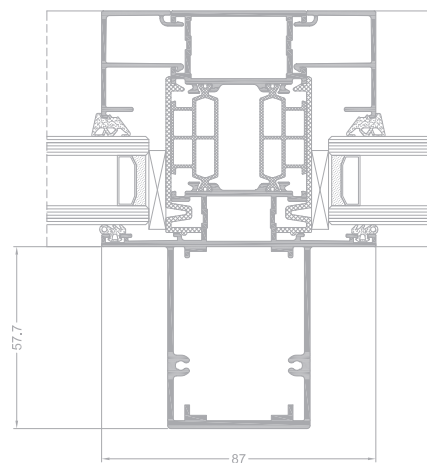
corner profile section (SP 051)



double casement section (SP 020 + SP 040 + SP 020)



reinforcement profile section (SP 038)



Three-chamber window and door system designed for designing windows, doors and shop windows with high thermal insulation parameters, installed in residential, public and industrial buildings and structures.

Superial system offers a broad range of window designs: opening and tilting type, opening type, tilting type, tilting and sliding type, rotating type with a vertical and horizontal axle of rotation, and doors (opening outwards and inwards, single or double-wing, glazed, swing doors and sliding doors).

Large number of shapes/profiles in the system allows obtaining desired appearance and structural strength.

The system permits bending of profiles, i.a. window frames, wings and lacings, which allows all kinds of arches and similar designs (detailed specification of profiles and detailed technical parameters of profile bending process are available in the customer area of the website www.aliplast.pl).

Superial window system meets the requirements of burglary resistance class RC3 according to norm PN-EN 1627.

Superial system, including subsystems (Superial OUT - outward opening doors, SP SU - hidden wing), offer a broad range of possibilities in external design.

A wide range of colours - selection between RAL palette (Qualicoat 1518), wood patterns Aliplast Wood Colour Effect (Qualideco PL-0001), anodized finish, also in bi-colour.



ALUMINIUM SYSTEMS & PROFILES FOR THE BUILDING INDUSTRIES

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DESIGNING

EXTRUSION

FABRICATION

DISTRIBUTION

POWDER COATING

www.aliplast.pl

SP

SUPERIAL: SP i, SP i+, SP SU, SP OUT, SP 800 i+

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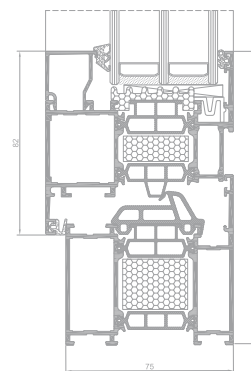
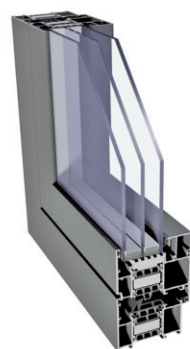
SP i, SP i+

The system is designed for design of windows and doors with high thermal insulation parameters. Available system variants:

- SP i
- SP i+

Improved thermal insulation was obtained by applying special thermal inserts installed between thermal separators and around the glass pane, improving thermal insulation factor coefficients of the profile 0,2-0,4 W/m²K.

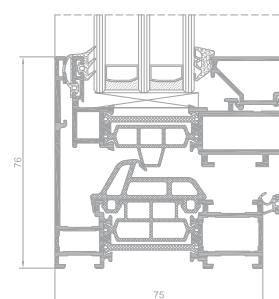
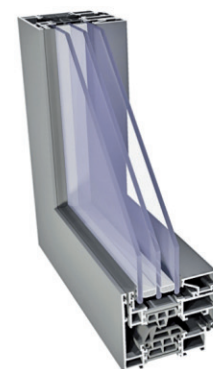
Design of systems SP i, SP i+ is based on proven, extensive and recognized base system Superial.



SP i+ window section

SP SU

System with thermal insulation designed for designing windows with hidden sash, invisible from the outside. Specially designed shape of the frame hides the full height of sash profile. SP SU system is the system preferred by designers, as it allows "hiding" windows in aluminium and glass structure.

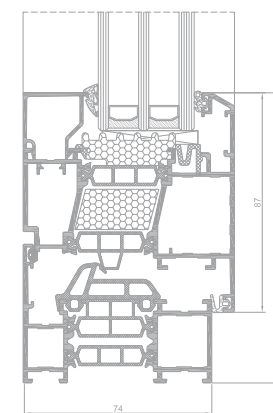
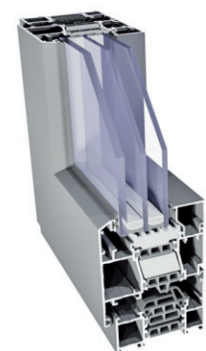


SP SU window section

SP OUT (Superial Outward)

Window system which allows designing windows tilting and opening outwards. SuperialOUT features faced internal surface of the frame and the wing. Such windows allow full use of the space inside the building. Available system variants:

- SP OUT i variant with additional thermal insulation, at the profile-glass interface.
- SP OUT i+ variant with additional thermal insulation in the space between thermal separators.



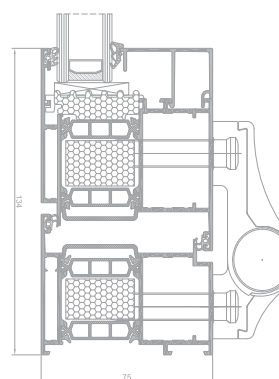
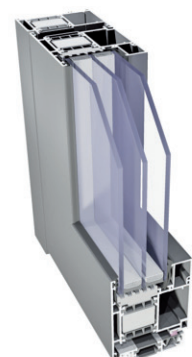
SP OUT i+ door section

SP 800

Three-chamber system designed for designing door with improved thermal insulation power. Available system variants:

- SP 800 i
- SP 800 i+

Improved thermal insulation was obtained by applying special thermal inserts installed between thermal separators and around the glass pane, improving thermal insulation factor coefficients of the profile 0,2-0,4 W/m²K.



SP 800 i+ door section

TECHNICAL SPECIFICATION

SYSTEM	MATERIAL	DEPTH OF FRAME	DEPTH OF LEAF	GLAZING RANGE	TYPE OF WINDOWS	TYPE OF DOORS
SP Superial window system	aluminium / polyamide	75 mm	84 mm	14-61 mm	single and double doors, outside opening, inside opening	
SP i+ Superial i+ window system	aluminium / polyamide	75 mm	84 mm	14-61 mm	single and double doors, outside opening, inside opening	
SP OUT Superial Outward window system	aluminium / polyamide	75 mm	84 mm	max 50 mm	outward opening	
SP SU Superial hidden sash window system	aluminium / polyamide	75 mm	78 mm	14-51 mm	hidden sash	
SP 800 Superial 800 door system	aluminium / polyamide	75 mm	75 mm	14-61 mm		single and double doors, outside opening, inside opening, panic door
SP 800 i+ Superial800 i+ door system	aluminium / polyamide	75 mm	75 mm	14-61 mm		single and double doors, outside opening, inside opening, panic door

PERFORMANCE

SYSTEM	THERMAL INSULATION Uf *	AIR PERMEABILITY	WINDLOAD RESISTANCE	WATERTIGHTNESS
SP	Uf from 1,41 W/m ² K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E1950; EN 12208
SP i+	Uf from 1,08 W/m ² K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E1950; EN 12208
SP OUT	Uf from 1,65 W/m ² K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E900; EN 12208
SP OUT i+	Uf from 1,41 W/m ² K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E900; EN 12208
SP SU	Uf from 1,48 W/m ² K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E900; EN 12208
SP SU i	Uf from 1,12 W/m ² K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E900; EN 12208
SP 800	Uf from 1,48 W/m ² K	Class 4; EN 12207	Class CE 2400; EN 12210	Class 8A; EN 12208
SP 800 i+	Uf from 1,08 W/m ² K	Class 4; EN 12207	Class CE 2400; EN 12210	Class 8A; EN 12208

* Thermal insulation is dependent on a combination of profiles and thickness of the filling.

- The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame.
- The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
- The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force. There are up to five levels of wind resistance (1 to 5) and three deflection classes (A, B, C). The higher the number, the better the performance.
- The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.