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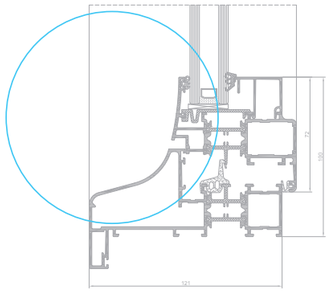
aluminium systems

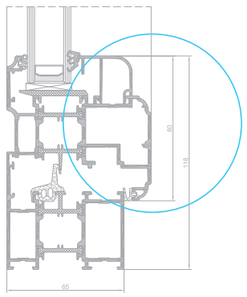
IMPERIAL

Sample profiles of a restorative and industrial

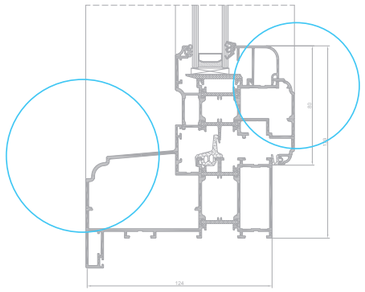
IP 319 + IP 320 window section



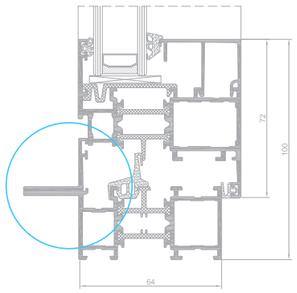
IP 011 + IP 520 door section



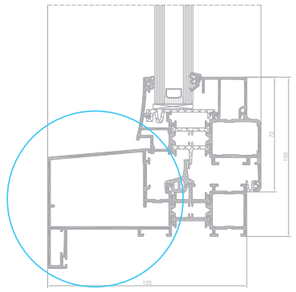
IP 419 + IP 520 window section



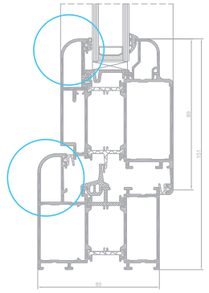
IP 210 + IP 620 door section



IP 519 + IP 320 window section



IP 218 + IP 220 door section



ALUMINIUM SYSTEMS & PROFILES FOR THE BUILDING INDUSTRIES

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WINDOW AND DOOR SYSTEMS www.aliplast.pl

IP

IP i, IP i+, IP SU, IP OUT, IP 800 i+

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Three-chamber window and door system with thermal insulation, allowing construction of multiple types of windows and doors, depending on application and detailed requirements concerning functionality, thermal insulation and appearance.

Imperial system offers a wide range of window designs: turn and tilt type, turn type, tilt type, tilt and slide type, rotate type with a vertical and horizontal axle of rotation, and doors (opening outwards and inwards, single or double-leaf, glazed, swing doors and sliding doors).

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

The profiles can be bent , i.a. window frames, wings and glazing beads, 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)

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

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.

Imperial system, including subsystems (Imperial OUT - outward opening doors, IP SU - hidden sash), offer a wide range of possibilities in external design. Imperial system also provides profiles allowing design of external frames with either industrial or restorative nature.

IP IMPERIAL: IP i, IP i+, IP SU, IP OUT, IP 800 i+

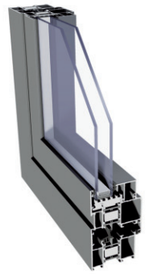
IP i, IP i+

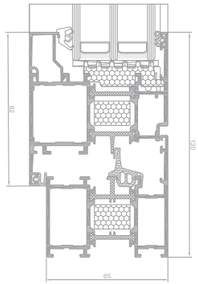
The system is designed for design of windows and doors with high thermal insulation parameters.
Available system variants:

- IP i
- IP 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 0,2-0,5 W/m^{2}K.

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

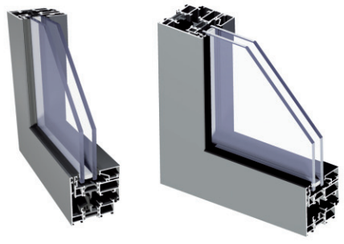


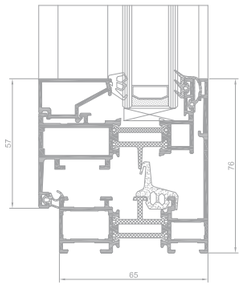


IP i+ window section

IP 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. Imperial SU system is the system preferred by designers, as it allows "hiding" windows in aluminium and glass structure.



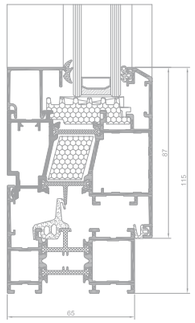


IP SU window section

IP OUT (Imperial Outward)

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

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



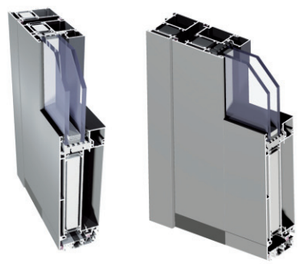
IP OUT i+ window section

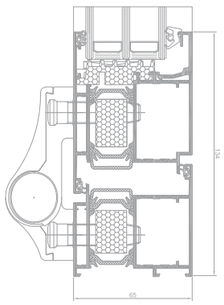
IP 800

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

- IP 800 i
- IP 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 0,2-0,5 W/m^{2}K.





IP 800 i+ door section

IMPERIAL

IP i, IP i+, IP SU, IP OUT, IP 800 i+

TECHNICAL SPECIFICATION

	SYSTEM	MATERIAL	DEPTH OF FRAME	DEPTH OF LEAF	GLAZING RANGE	TYPE OF WINDOWS	TYPE OF DOORS
IP	**Imperial** window system	aluminium / polyamide	65 mm	74 mm	4-51 mm	single and double doors, outside opening, inside opening	
IP i+	**Imperial i+** window system	aluminium / polyamide	65 mm	74 mm	4-51 mm	single and double doors, outside opening, inside opening	
IP OUT	**Imperial Outward** window system	aluminium / polyamide	65 mm	74 mm	max 51 mm	outward openings	
IP SU	**Imperial hidden sash** window system	aluminium / polyamide	65 mm	68 mm	4-41 mm	hidden sash	
IP 800	**Imperial serie 800** door system	aluminium / polyamide	65 mm	65 mm	14-51 mm		single and double doors, outside opening, inside opening, panic door
IP 800 i+	**Imperial serie 800 i+** door system	aluminium / polyamide	65 mm	65 mm	14-51 mm		single and double doors, outside opening, inside opening, panic door

PERFORMANCE

SYSTEM	THERMAL INSULATION Uf *	AIR PERMEABILITY	WINDLOAD RESISTANCE	WATERTIGHTNESS
IP	Uf from 1,57 W/m^{2}K	Class 4; EN 12207	Class C4; EN 12210	Class E1350; EN 12208
IP i+	Uf from 1,28 W/m^{2}K	Class 4; EN 12207	Class C4; EN 12210	Class E1350; EN 12208
IP OUT	Uf from 1,85 W/m^{2}K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E900; EN 12208
IP OUT i	Uf from 1,68 W/m^{2}K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E900; EN 12208
IP 800	Uf from 1,55 W/m^{2}K	Class 4; EN 12207	Class CE 2400; EN 12210	Class 8A; EN 12208
IP 800 i+	Uf from 1,37 W/m^{2}K	Class 4; EN 12207	Class CE 2400; EN 12210	Class 8A; EN 12208
IP SU	Uf from 1,63 W/m^{2}K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E1200; EN 12208
IP SU i	Uf from 1,27 W/m^{2}K	Class 4; EN 12207	Class C5/B5; EN 12210	Class E1200; 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 strenght 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.