# ALUMINIUM SYSTEMS Ponzio

000000 ......... 0000000000 ..........









....

000

## CONTENTS

About Ponzio 📎		2 - 3
Curtain walls		
Ponzio PF152HI	- MULLION-TRANSOM CURTAIN WALL	4 - 5
Ponzio PF152ESG	- FRAMELESS STRUCTURAL CURTAIN WALL 6	
Ponzio PF152IW	- CURTAIN WALL WITH INTEGRATED WINDOWS	
Ponzio PF173	- MODULAR CURTAIN WALL	
Ponzio PF152 fire-resistant version	- FIRE RESISTANT CURTAIN WALLS	10 - 11
Ponzio PF152WG	- WINTER GARDENS	12 - 13
PONZIO SUN PROTECT	- LOUVERS	14
PONZIO BOND	- COMPOSITE FAÇADE PANELS	15
Internal windows and doors 📎		
Ponzio PE50		16 - 17
Ponzio PE40		18
Ponzio OF90	- OFFICE PARTITION WALL	19
External windows and doors 📎		
Ponzio PE52		20 - 21
Ponzio PE60		22 - 23
Ponzio PE68	- WINDOWS	24 - 25
Ponzio PE68HI	- WINDOWS	26
Ponzio PE68/PE68HI	- DOORS	27
Ponzio PE78N	- WINDOWS	28 - 29
Ponzio PE78NHI	- WINDOWS	30
Ponzio PE96 Passive	- WINDOWS	31
Ponzio PE78N/PE78NHI	- DOORS	32
Ponzio PE78NHI	- DOORS WITH CENTRAL SEALING	33
Ponzio PE68/PE78N	- PANEL DOORS	34
Ponzio PE78NHI	- FLOATING PANEL DOORS	35
Ponzio PE78EI	- FIRE-RESISTANT DOORS AND WINDOWS	36 - 37
Sliding windows and doors		
Ponzio SL600		38
Ponzio SL600ttEVO		39
Ponzio SL1200tt		40
Ponzio SL1600tt		41
Ponzio SL1600ttHI		42 - 43
Additional information		44
Software 🔊		45
•		

2.



#### aluminium systems



#### Potential of Ponzio Poland

Technical Department	responsible for both R&D and technical support for joinery manufacturers
Project Management Department 🔌	cooperates with design studios and supports architects
Production Department	equipped with modern, automated coating lines, thermal break assembly lines and profile bending machinery
Quality Control Department	guarantees the highest quality of manufactured systems
Sales Department	provides customer care for the large network of our Customers – joinery manufacturers
Logistics Department	coordinates our transport fleet and takes care of on-time deliveries in Poland and abroad
Acquisitions Department	responsible for dealing with suppliers and stock replenishment
High-bay Warehouses	among the largest in the industry



# Ponzio

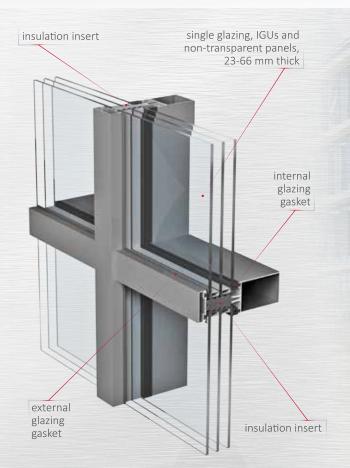
#### About Ponzio

The Ponzio Group is one of the leading manufacturers of aluminium profile systems. This position was achieved by implementing a consistent strategy and with the help of a team of professionals which forms the core of our company. Raw materials and components are purchased from internationally renowned suppliers. The whole manufacturing process is handled by top-of-the line, automated machinery and undergoes strict quality control at every stage. We also have our own laboratory which is used for testing the performances of aluminium constructions.

Innovation is one of the main goals of Ponzio. Our aluminium profile systems are designed to fulfill the most stringent requirements. The wide array of system solutions inspire architects to design modern and functional buildings. Many interesting works of architecture located all around the world are the result of our cooperation with designers and investors.

On-time deliveries are coordinated by our advanced logistics centre. Our very own fleet of transport vehicles ensures efficient deliveries to any place in Europe.

## Ponzio PF152HI





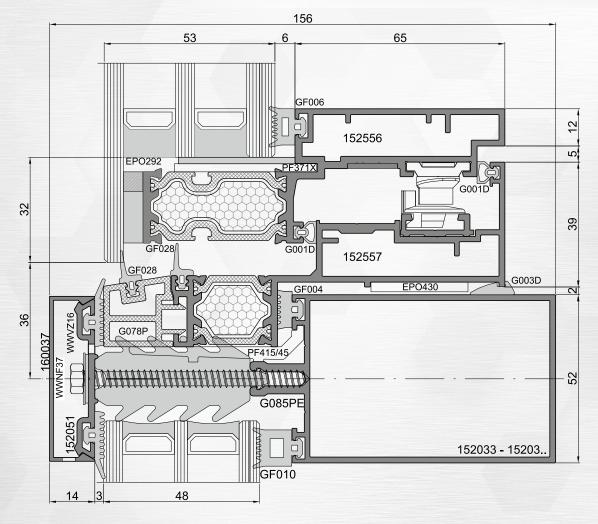
 $\bigcup_{cw} = 0.62 \text{ W/m}^2\text{K}$ \*reference construction dimensions: L 1200 x H 2500 mm U<sub>g</sub> = 0.5 W/m<sup>2</sup>K, triple glazing

A mullion-transom system designed for the construction of curtain walls, roofs, rooflights with improved thermal characteristics.

» high thermal insulation, sound reduction, watertightness and resistance to wind load performance values

- » the Ponzio PF152HI PASSIVE variant is certified by the Passivhaus Institut in Darmstadt (phA class)
- » solutions for steel and wooden subconstructions
- » fire-resistant spandrel solutions available (EI60 class)
- » external cover profile width 51 mm
- » wide range of possible geometrical designs and colours
- » several types of external decorative elements available
- » "horizontal" or "vertical" line constructions
- » profile bending possible
- » Ponzio system windows may be used as filling
- interconnected with other Ponzio systems

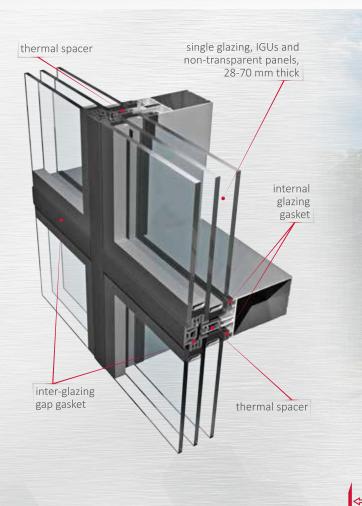
## Ponzio PF152HI



#### Technical parameters

Filling thickness		23-66 mm for curtain walls, 24-60 mm for windows
Mullion and transom width		52 mm
Thermal insulation	>	U <sub>f</sub> from 1,0 W/m²K
Thermal insulation	>	$U_{cw}/U_{w}$ from 0,62 W/m <sup>2</sup> K
Air permeability	>	class AE 1200
Watertightness	>	class RE 1200
Sound reduction		$R_{w} = 41 dB$
Resistance to impact		class E5/I5
Resistance to wind load		class 1600 Pa, E 2400 Pa
Resistance to burglary		class RC2, RC3 in acc. with PN - EN 1627
Filling fixing method		using pressure plates and cover profiles
Certification		ITT in acc. with PN-EN 13830, certified by the Passivhaus Institut in Darmstadt

## Ponzio PFI52ESG

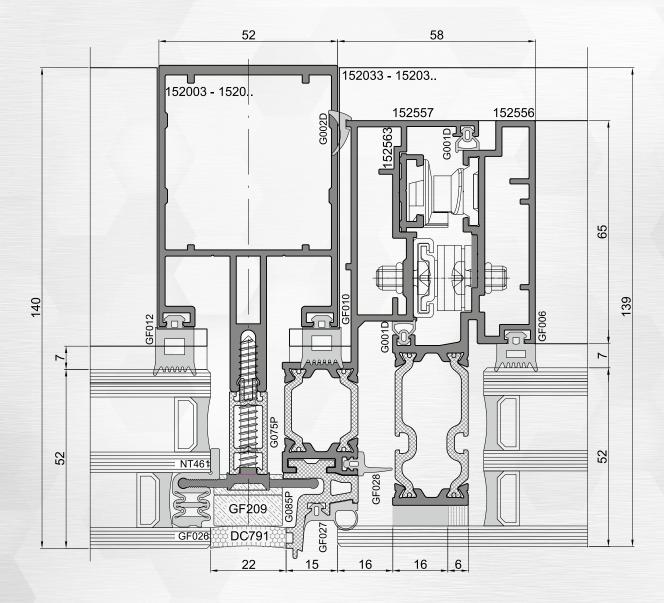


U = 0.64 W/m<sup>2</sup>K \*reference construction dimensions: L 1200 x H 2500 mm U = 0.5 W/m<sup>2</sup>K, triple glazing

#### A system designed for the construction of curtain walls and other spatial structures.

- the external surface is a flat glazed surface, divided with vertical and horizontal lines 22 mm wide (using weather-proof silicone) or 28 mm wide (using system glazing gaskets)
- » shares the mullion-transom load bearing structure of the Ponzio PF152 curtain wall system, including a wide selection of profiles
- Ponzio system windows may be used as filling
- » independently opening awning windows placed alongside each other possible
- » triple glazing may be used (up to 70 mm thick)
- » profile bending possible

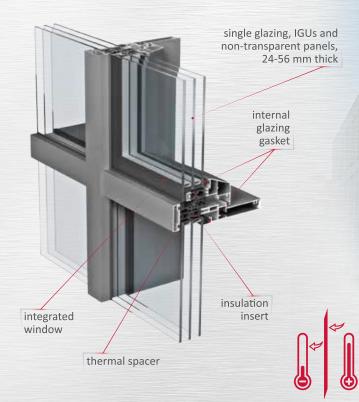
## Ponzio PFI52ESG

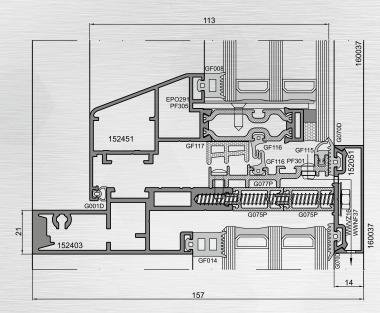


#### Technical parameters

Filling thickness		28-70 mm for curtain walls, 24-60 mm for windows
Thermal insulation	*	U <sub>f</sub> from 1.3 W/m²K
Thermal insulation	*	$U_{cw}/U_{w}$ from 0.64 W/m <sup>2</sup> K
Air permeability	*	class A4
Watertightness	*	class 9A
Certification	*	ITT in acc. with PN-EN 13830

## Ponzio PFI52IW







U = 0.91 W/m<sup>2</sup>K \*reference construction dimensions: L 1200 x H 2500 mm U = 0.5 W/m<sup>2</sup>K, triple glazing

#### Technical parameters

Filling thickness		24
Sash depth	>>	77
Mullion and transom depth	*	76
Mullion and transom width	*	21
Thermal insulation	*	$U_{f}$
Thermal insulation	*	U <sub>c</sub>
Certification	*	IT

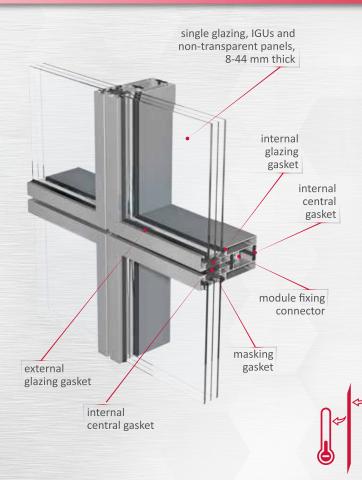
24 - 56 mm 77 mm or 101 mm 76 mm, 100 mm, 124 mm 21 mm U<sub>f</sub> from 2.1 W/m<sup>2</sup>K U<sub>cw</sub>/U<sub>w</sub> from 0.91 W/m<sup>2</sup>K ITT in acc. with PN-EN 13830

#### A system designed for the construction of curtain walls with structural glazing.

- » a Ponzio PF152/PF152ESG variant with seemless, inward opening windows
- » the frame and sash construction is not visible from the outside
- » flat constructions possible
- » several possible window-frame connection solutions:
  - standard Ponzio PF152 cover profile,
  - gasket variant,
  - Ponzio PF152ESG silicone joint

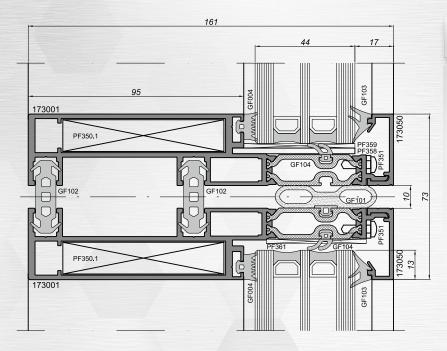
» high thermal insulation and sound reduction performance due to ABS thermal spacers and EPDM cavity gaskets

## Ponzio PF173





 $U_{cw} = 0.74 \text{ W/m}^2\text{K}$ \*reference construction dimensions: L 1200 x H 2500 mm U\_{g} = 0.5 W/m^2\text{K}, triple glazing



#### Technical parameters

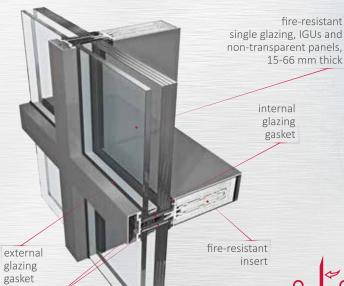
Filling thickness	8 - 44 mm
Frame depth	衸 95 mm
Frame width	31,5 mm
Transom width	<b>i</b> 73 mm
Thermal insulation	U <sub>f</sub> from 2.1 W/m <sup>2</sup> K
Thermal insulation	

A system designed for the construction of curtain walls consisting of prefabricated modules mounted to the load-bearing structure of the building.

» elements prefabricated in the workshop - high precision

- ready-made modules fixed to the building
- interconnected with other Ponzio systems

## Ponzio PF152 FIRE-RESISTANT VERSION EI30, EI60



intumescent tape

#### U<sub>cw</sub> = 0.78 W/m²K

30

16

4

\*reference construction dimensions: L 1200 x H 2500 m  $U_{g}$  = 0.5 W/m<sup>2</sup>K, triple glazing

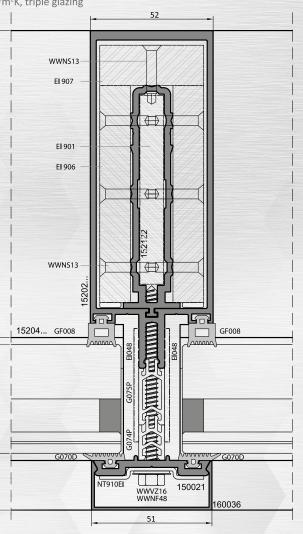
#### Technical parameters

Filling thickness	*	15 - 66 mm
Mullion depth	*	85 - 196 mm
Transom depth	*	91 - 201 mm
Mullion and transom width	*	52 mm
Thermal insulation	*	U <sub>o</sub> from 1.7 W/m²K
Thermal insulation	*	U <sub>cv</sub> /U <sub>w</sub> from 0.78 W/m²K
Air permeability	*	class AE 1200
Watertightness	*	class RE 1200
Classification	*	fire resistance: LBO-576-K/14
Certification	*	1. classification 01-01561/16/R79NZE 2. 01561/16/R83NZP "Assessment of fire propagation along Ponzio PF152 walls and roof coverings" 3. 1561/16/R82NZP "Fire resistance classification of

along Ponzio PF152 walls and roof coverings" 3. 1561/16/R82NZP "Fire resistance classification of Ponzio PF152 full and part configuration curtain walls manufactured by Ponzio Polska Sp. z o.o."

A fire-resistant variant of the Ponzio PF152 curtain wall system, classified EI30 and EI60.

- » fire-resistant curtain walls with glazed and non-transparent spandrels
- » external cover profile width 51 mm
- » overall construction width and height not limited
- single and double PE78EI fire-resistant windows and doors may be mounted in the curtain wall
- » thermal spacers protected with intumescent tapes
- > tight seal of frame-filling connections
- » load-bearing capability during fire ensured by internal aluminium reinforcing
- profiles with fire-resistant inserts and special mullion-transom joints



### Ponzio PFI52 FIRE-RESISTANT VERSION KI. REI30/RE45

external glazing gasket TGUs up to 67 mm thick intumescent tape

special fire-resistant insert



#### Technical parameters

Filling thickness	>>>	up to 67 mm
Mullion depth	>>	85 - 196 mm
Transom depth	*	91 - 201 mm
Mullion and transom width	*	52 mm
Thermal insulation	*	U <sub>f</sub> from 1.9 W/m²K
Thermal insulation	*	$U_{W}/U_{W}$ from 1.1 W/m <sup>2</sup> K (dla U <sub>g</sub> =0.7 W/m <sup>2</sup> K i konstrukcji o wym. 3.0x4.3m)
Classification	*	REI30/RE45
Certification	*	1. ITB fire resistance classification 01577.2/17/Z00NZP 2. classification reports 1577.1/17/Z00NZP

2. classification reports 1577.1/17/200NZP and 1577.1/17/200NZP/ENG 3. 01561/16/R83NZP "Assessment of fire propagation along Ponzio PF152 walls and roof coverings"

A variant of the Ponzio PF152 curtain wall system designed for the construction of rooflights resistant to internal fire REI30/RE45 in acc. with PN-EN 13501-2:2016.

» 0° - 80° roof slopes available

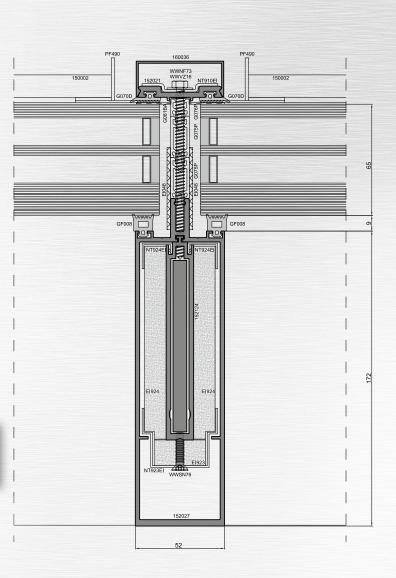
a variable load (e.g. snow load) of 0.24 kN/m<sup>2</sup> was simulated during the test

» maximum glazing size 900x2000 mm or 988x1500 mm

> triangular and trapezoid glazing shapes possible

> no limit to roof width, the size of the roof is only limited by maximum rafter and purlin stress

> TGUs up to 67mm thick may be used



## Ponzio PF152WG

glazing gasket

insulation profile



eaves beam central gasket

#### A system designed for the construction of winter gardens and other spatial structures.

thermal break

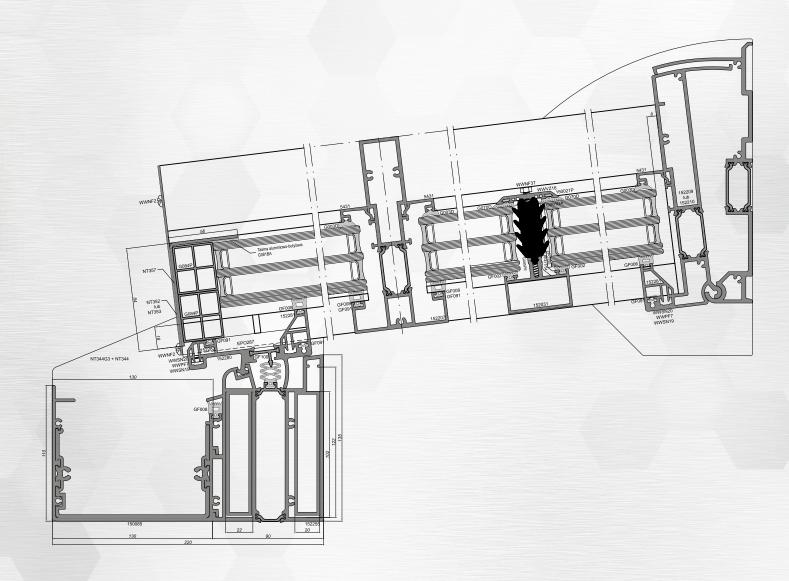
» roof slope construction consisting of PF152 system profiles or PF152WG reverse rafter profiles

- » roof structure placed on curtain wall mullions, door-and-window system profiles or reinforced PF152WG mullions
- » the rafter system enables the use of standard glazing beads from door-and-window systems
- » identical rafter-transom connections as in PF152 curtain walls

gutter profile

- » roof slopes mounted using a hinge joint on the wall beams and system joints on the eaves beam (includes a gutter profile)
- interconnected with other Ponzio systems
- » roof slopes of 7° 45° available

## Ponzio PFI52WG



#### Technical parameters

\*

>

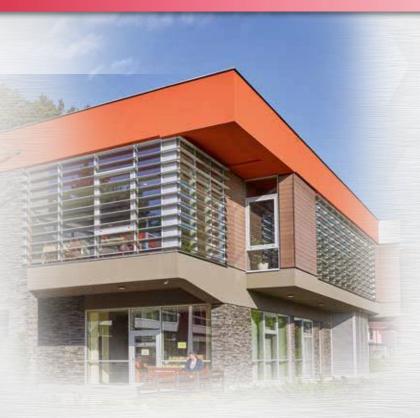
Filling thickness Type of filling

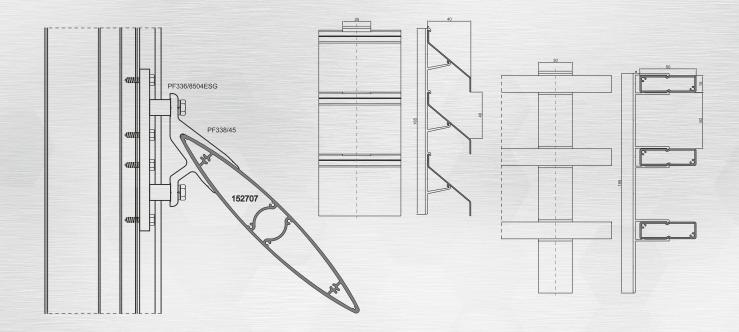
8 - 54 mm

IGUs, non-transparent panels, polycarbonate panes

## CURTAIN WALL SYSTEMS PONZIO SUN PROTECT







#### A modern solution for protecting buildings from excessive sunlight.

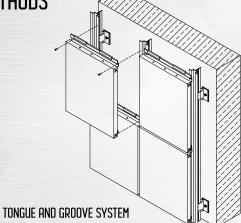
- Iouvers are recommended for use in conjunction with large glazed constructions in order to reduce sunlight exposure of interior spaces
- » the system includes: 100-400 mm aerofoil blade profiles as well as 40 and 80 mm "Z" shaped profiles
- » louvers mounted to walls, curtain walls as well as windows
- » joints for mounting profiles at 15°, 30° and 45° degrees relative to the horizontal plane
- » movable louver variant automatically controlled position

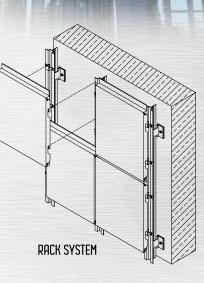
## PONZIO BOND





FIXING METHODS





A light, ventilated façade system consisting of composite panels and mounting profiles and accessories.

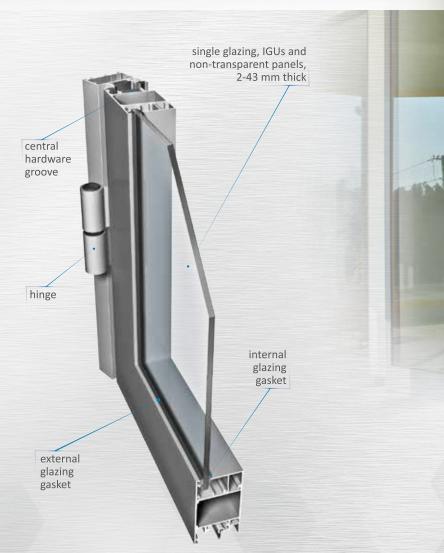
- » two panel types:
- PONZIOBOND PE consisting of a plastic core sandwiched between two aluminium sheets - PONZIOBOND FR - fire-retardant panels - the plastic core is mixed with a mineral filling
- » advanced optimisation possibilities due to large panel sizes
- » easy mounting
- » short working time
- » functional and aesthetic gives architects a wide range of possible applications
- » light, rigid and stable
- » good resistance to weather conditions
- > many different shapes possible
- » wide range of colours available (including wood-like)

#### **Technical parameters**

#### Certification

 $\mathbf{x}$ 

## Ponzio PE50





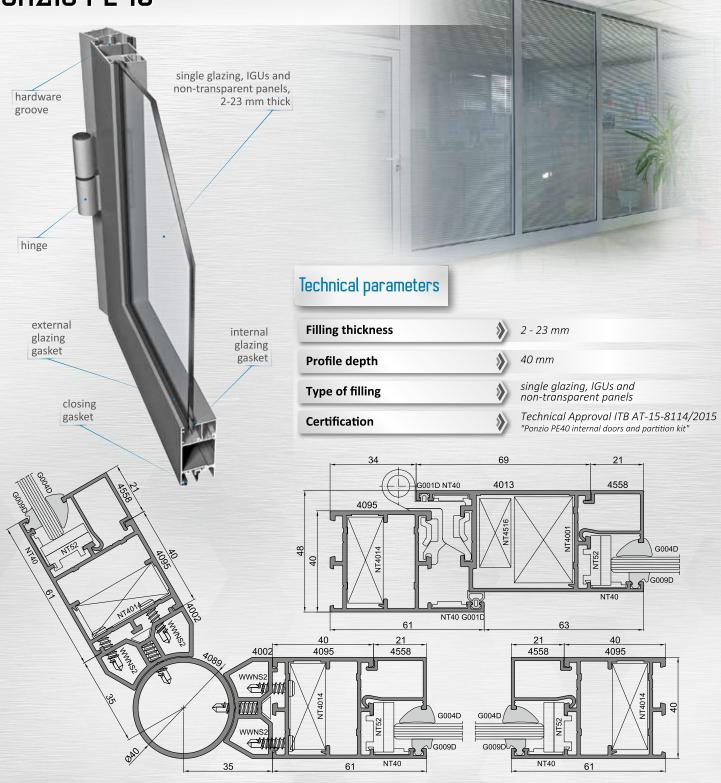
A non-insulated aluminium profile system designed for the manufacturing of internal constructions: glazed partitions, windows and doors.

- » Euro hardware groove in door profiles
- » window sashes with PVC hardware groove available
- wide range of possible constructions: coplanar doors, doors with a central hardware groove, glass doors, manual and automatic sliding doors, swing doors, windows and glazed partitions
- » wide range of available hardware
- » window sashes flush with the frame on the outside
- » sliding doors can be either manual or automatic
- » wide choice of possible door leafs with or without kickplate, with or without threshold
- interconnected with other Ponzio systems
- » screwed and crimped joints available

## Ponzio PE50



## Ponzio PE40

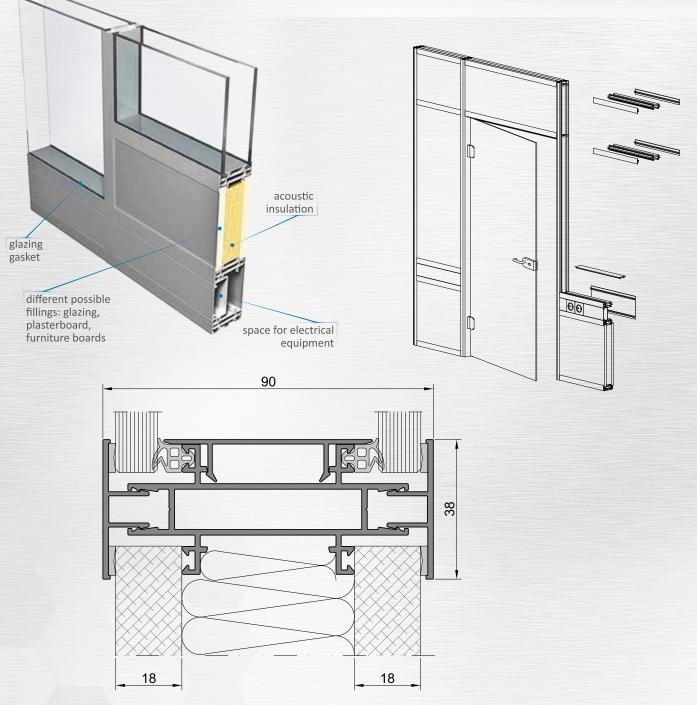


A non-insulated aluminium profile system designed for the manufacturing of internal constructions: glazed partitions and single and double doors.

» manual and automatic sliding doors and angled partitions available

- » Euro hardware groove wide range of available accessories
- » mortise hinges available easier installation and lower costs
- interconnected with other Ponzio systems
- » wide choice of possible door leafs with or without kickplate, with or without threshold
- » screwed and crimped joints available
- » profile bending possible

#### Ponzio OF90



A door, glazed wall and window set system designed for the construction of partitions in modern office spaces.

- » visually light constructions with good sound reduction performance
- » profile dimensions: pressure plate width 38 mm, construction depth 80 or 90 mm
- » fillings: glazing or non-transparent panels 3-18 mm thick (fixed using pressure plates and glazing gaskets)
- » a wide variety of possible constructions, tailored for the customer's needs
- » angles available 90°- 270°
- » "T" and "L" shaped connections
- » integrated electrical and office equipment mounting
- » internal blinds may be installed with glass fillings

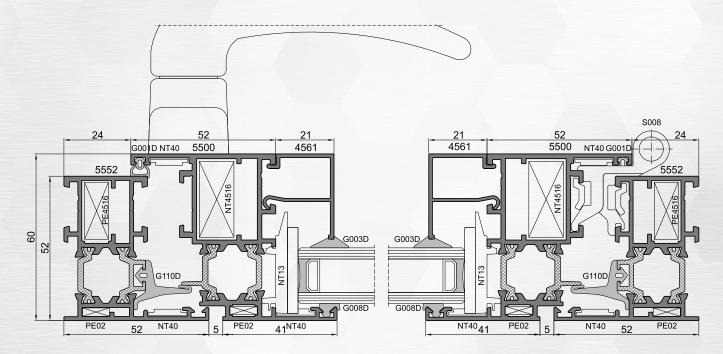
## Ponzio PE52

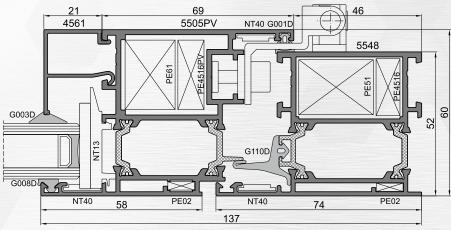


An economic insulated aluminium profile system with the Euro hardware groove as well as the PVC hardware groove in window sash profiles.

- » large-dimension constructions possible
- » interconnected with other Ponzio systems
- » Euro and PVC hardware grooves available
- » profile bending available
- » screwed and crimped corner connections available
- *» sash and frame profiles flush on the outside*

### Ponzio PE52





#### Technical parameters

Filling thickness	*	2 - 43 mm
Frame depth	>>	52 mm
Sash depth	*	60 mm
Type of filling	*	single glazing, IGUs and non-transparent panels
Thermal insulation	*	frame heat transfer coefficient $U_f$ from 2.1 W/m <sup>2</sup> K
Certification	*	ITT in acc. with PN - EN 14351-1 + A1

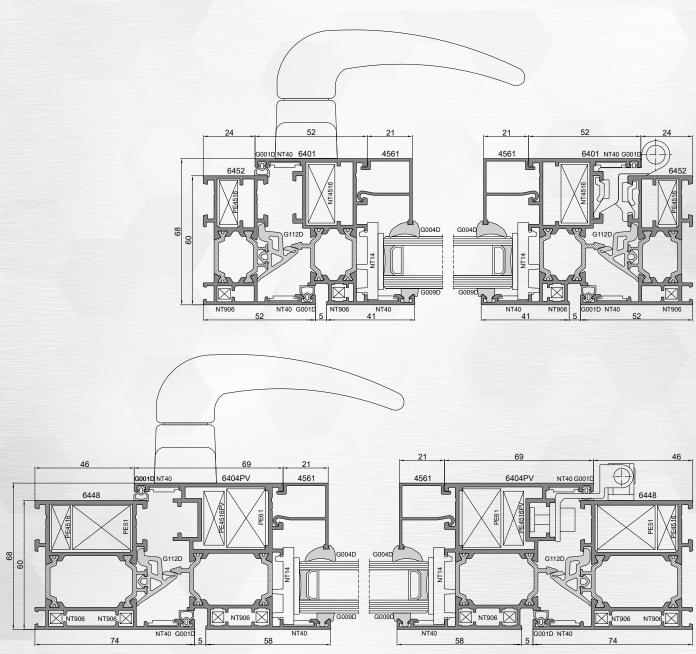
## Ponzio PE60



An insulated aluminium profile system with the Euro hardware groove as well as the PVC hardware groove in window sash profiles.

- » 24 mm thermal break and central gasket ensure high thermal performance
- » wide range of hardware results in easier installation
- » large-dimension constructions possible
- interconnected with other Ponzio systems
- » window sashes flush with the frame on the outside
- » profile bending available
- » wide variety of corner joint solutions

### Ponzio PE60



#### Technical parameters

Filling thickness	8 - 51 mm
Frame depth	60 mm
Sash depth	68 mm
Type of filling	single glazing, IGUs and non-transparent panels
Thermal insulation	frame heat transfer coefficient U <sub>f</sub> from 2.0 W/m²K
Certification	ITT in acc. with PN - EN 14351-1 + A1 resistance to burglary testing: class RC2 in acc. with PN - EN 1627

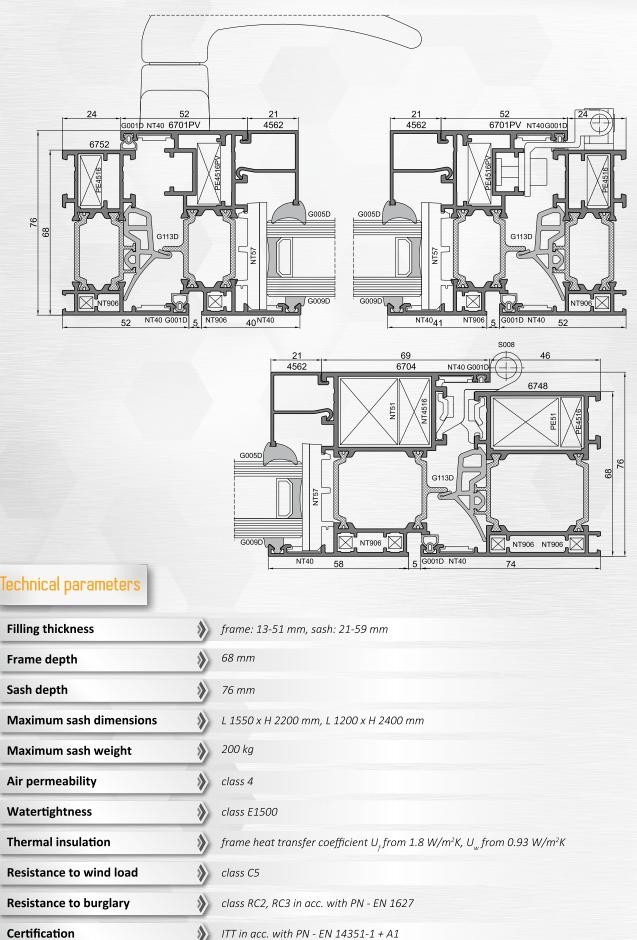
### Ponzio PE68 WINDOWS



An insulated aluminium profile system with the Euro hardware groove as well as the PVC hardware groove in window sash profiles featuring very high thermal performance.

- high thermal performance due to the optimised 32 mm thermal break and central gaskets (mono- or bi-component)
   easy installation of a wide range of hardware
- » the three-cavity design of profiles ensures good mechanical durability, thus enabling large constructions
- » window sashes flush with the frame on the outside
- » profile bending available
- » wide variety of corner joint solutions
- » wide variety of possible constructions: turn-tilt, outward opening, concealed sash, pivoting etc.
- » different thermal insulation variants with different insulation inserts: PE68+, PE68HI

#### Ponzio PE68 WINDOWS



### Ponzio PE68HI WINDOWS



## EXTERNAL WINDOWS AND DOORS Ponzio PE68/PE68HI DOORS

48

6765

PE725

PE702

95

insulation inserts: PE68+, PE68HI

21

4559

G004D

G009D

S



PN - EN 14351-1 + A1

#### Ponzio PE78N WINDOWS



✓ U \*refe

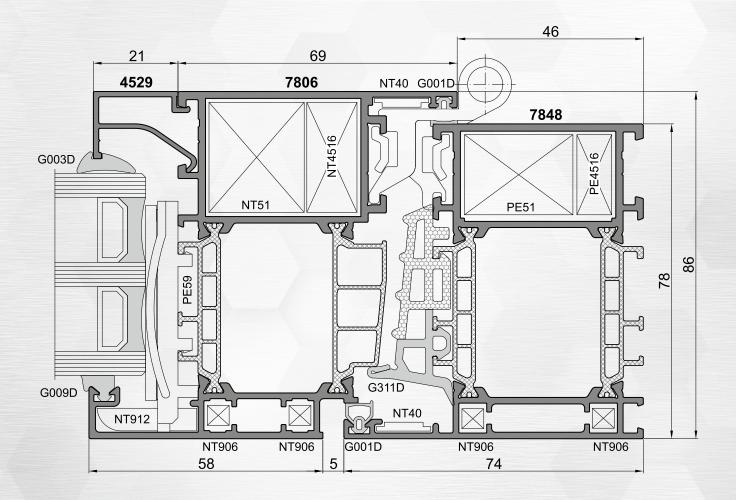
 $J_{w} = 0.88 \text{ W/m}^{2}\text{K}$ 

\*reference construction dimensions: L 1480 x H 2180 mm U<sub>a</sub> = 0.5 W/m<sup>2</sup>K, triple glazing

An insulated aluminium profile system with the Euro hardware groove as well as the PVC hardware groove in window sash profiles, designed for the construction of very high thermal performance windows.

- » high thermal performance due to the multi-cavity 42 mm thermal break and bi-component central gasket
- » large-dimension constructions possible
- » wide range of available hardware
- » window sashes flush with the frame on the outside
- » profile bending available
- » wide variety of corner joint solutions
- » different thermal insulation variants with different insulation inserts: PE78N+, PE78NHI, PE78NHI+
- » wide variety of possible constructions: turn-tilt, outward opening, concealed sash etc.

### Ponzio PE78N WINDOWS



#### Technical parameters

Filling thickness	<i>frame: 17-61 mm, sash: 25-69 mm</i>
Frame depth	78 mm
Sash depth	86 mm
Maximum sash dimensions	
Maximum sash weight	200 kg
Air permeability	class 4
Watertightness	class E1650
Thermal insulation	i frame heat transfer coefficient U <sub>f</sub> from 1.7 W/m <sup>2</sup> K, U <sub>w</sub> from 0.88 W/m <sup>2</sup> K
Resistance to wind load	class C5
Resistance to burglary	class RC2, RC3 in acc. with PN - EN 1627
Certification	>>> ITT in acc. with PN - EN 14351-1 + A1

### Ponzio PE78NHI WINDOWS



#### Ponzio PE96 Passive

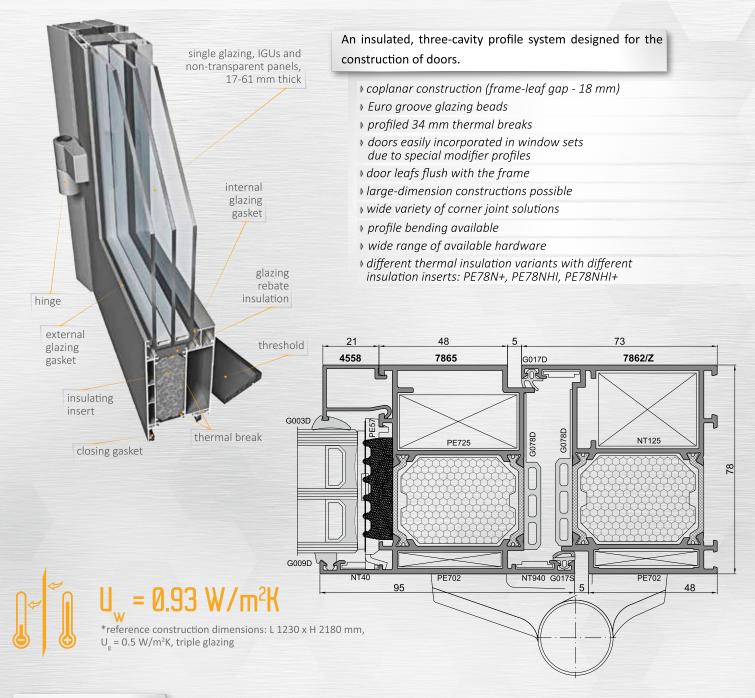


Certification

>>

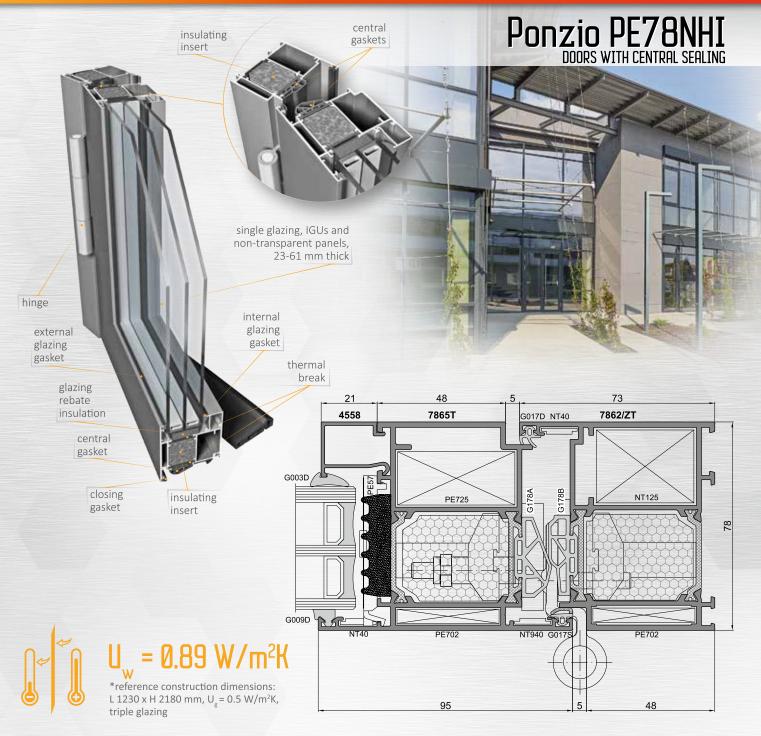
PN - EN 14351-1 + A1

### Ponzio PE78N/PE78NHI DOORS



#### Technical parameters

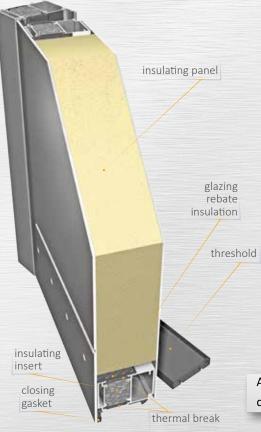
Filling thickness	🔊 leaf: 17-61 mm	Thermal insulation	*	PE78N: U <sub>.</sub> from 2.1 W/m²K PE78NHI: <sup>f</sup> U <sub>f</sub> from 1.5 W/m²K
Frame and leaf depth	>>> 78 mm	Thermal insulation	*	PE78N: U from 1.10 W/m²K PE78NHI: U from 0.93 W/m²K
Maximum leaf dimensions		Resistance to wind load	*	class C2/B3
Maximum leaf weight	210 kg	Resistance to burglary	*	class RC2, RC3 in acc. with PN - EN 1627
Air permeability	class 3	Certification	*	ITT in acc. with PN - EN 14351-1 + A1
Watertightness	class 9A			



A variant of the Ponzio PE78N system with additional central gaskets resulting in improved Uf values.

- » gasket mounted on a bespoke thermal break (available also in anti-bimetal versions)
- » special corners for gaskets easier installation and improved corner sealing
- » new external closing gasket with a wide range of movement compensates for prefabrication and assembly errors
- » euro groove glazing beads
- » large-dimension constructions available
- » profiled thermal breaks
- > door leafs flush with frame
- » doors easily incorporated in window sets due to special modifier profiles
- » wide variety of corner joint solutions

# Ponzio PE68/PE78N



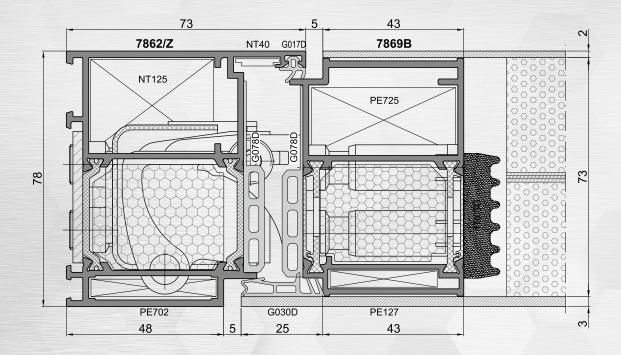
\*reference construction dimensions: L 1230 x H 2180 mm, U = 0.45 W/m<sup>2</sup>K,

insulating panel



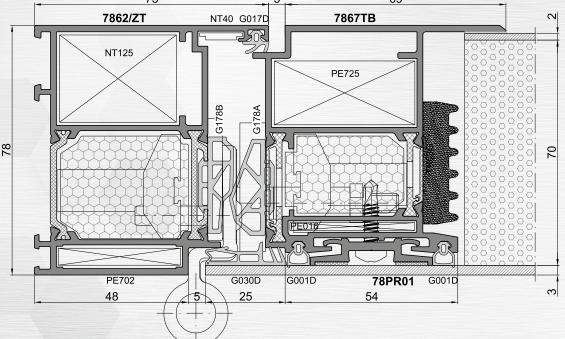
A solution for the most demanding customers, designed for the construction of doors with flush visible surfaces.

- » door leaf flush with window frame
- » light yet rigid door structure
- » wide variety of panel designs available
- » uniform appearance of door
- » concealed construction elements
- » smooth, elegant, modern design
- » available hinges include: surface hinges, concealed hinges, roll hinges



## EXTERNAL WINDOWS AND DOORS





### FIRE-RESISTANT SYSTEMS

#### Ponzio PE78EI EII5, EI30, EI45, EI60, EI90, EI120



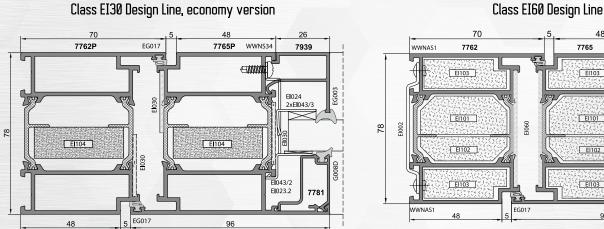


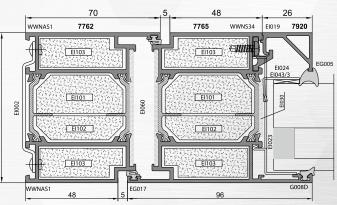
An insulated profile system designed for the construction of internal and external fire-resistant joinery.

- profiles with special fire-resistant inserts, selection depending on the fire resistance class of the joinery: EI15, EI30, EI45, EI60, EI90, EI120
- single and double, inward and outward opening doors with several different threshold solutions as well as partitions up to 4000 mm high available
- » 35 and 46 mm thermal breaks ensuring good thermal insulation
- » easy hardware and accessories installation shortens construction time
- Iarge-dimension constructions available
- » Design Line system variant (glazing with beads on only one side)
- glazing and profiles form a nearly flush surface
- decreased production and assembly time compared to systems with glazing beads on both sides
- » interconnected with other Ponzio systems
- » smoke control doors available
- » arched constructions available
- » three types of fire-resistant inserts: gypsum, aluminosilicate and poured

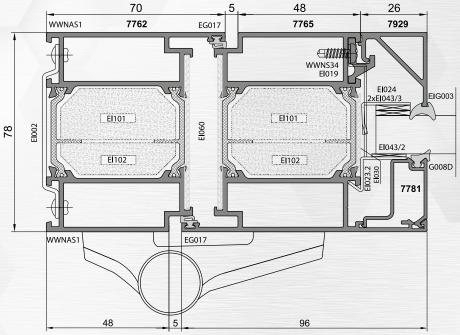
### FIRE-RESISTANT SYSTEMS

# Ponzio PE78EI EII5, EI30, EI45, EI60, EI90, EII20





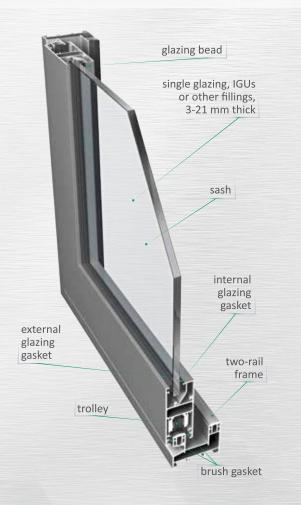
**Class EI30** 



Filling thickness	*	8 - 62 mm (55 - 73 mm for El 120)
Frame and leaf depth	*	78 mm (89 mm for El120)
Type of filling	*	fire-resistant single glazing, IGUs: PN-EN1279-1, PN-EN 1279-5 non-transparent panels: in acc. with the Technical Approval or the National Technical Assessment
Gaskets	*	EPDM, in acc. with PN-EN 12365-1
Smoke control	*	class $S_a$ and $S_{200}$ in acc. with PN-EN 13501-2
Sound reduction	*	$R_{A1} - 35  dB, R_{A2} - 30  dB, R_{W} - 37  dB$ (Swissflam 17 mm fire-resistant single glazing)
Fire resistance classification	>>	EI15, EW30, EI30, EI45, EI60, EI90, EI120
Technical Approval	*	ITB Technical Approval AT-15-7540/2016 "PONZIO PE78EI fire-resistant doors and internal and external fire-resistant partition kits using aluminium profiles with thermal breaks"
National Technical Assessment	*	<ol> <li>ITB-KOT-2017/0351 - "PONZIO PE78EI internal fire-resistant and/or smoke control doors, internal fire-resistant windows and internal and external fire-resistant partition kit using aluminium profiles with thermal breaks"</li> <li>ITB-KOT-2018/0529 - "PONZIO PE78EI internal fire-resistant full-glass partition kit using aluminium profiles with thermal breaks"</li> </ol>

## SLIDING WINDOWS AND DOORS

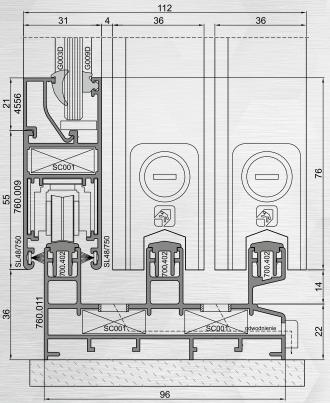
## Ponzio SL600





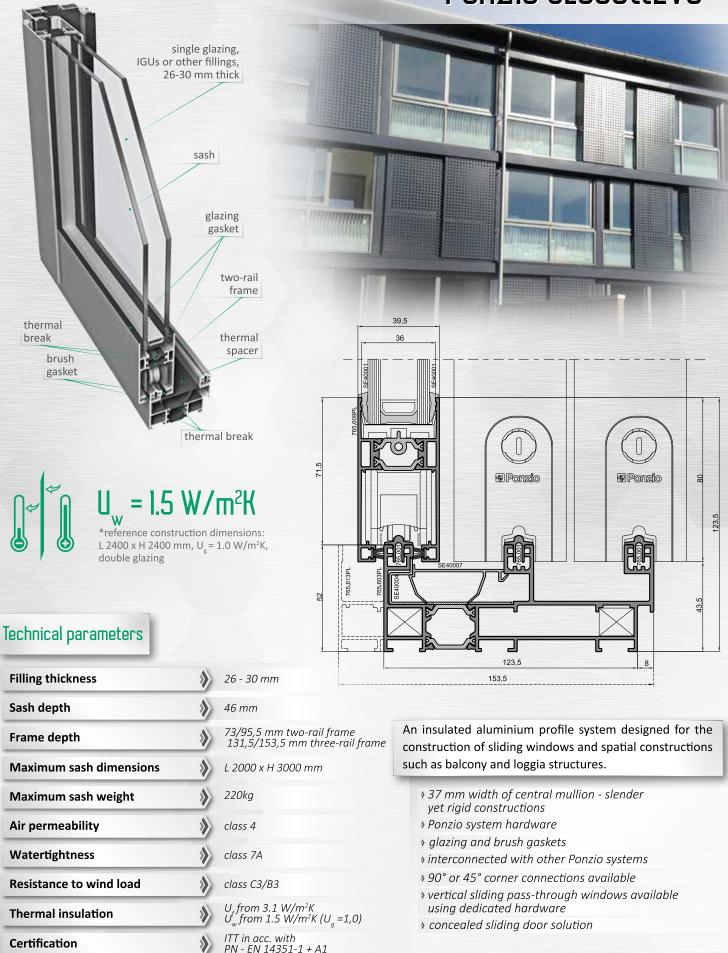
A non-insulated aluminium profile system designed for the construction of internal and external joinery, including sliding partitions and balocny constructions.

- » two- and three-rail frames available
- constructions with several sashes possible
- interconnected with other Ponzio systems
- » Ponzio system hardware



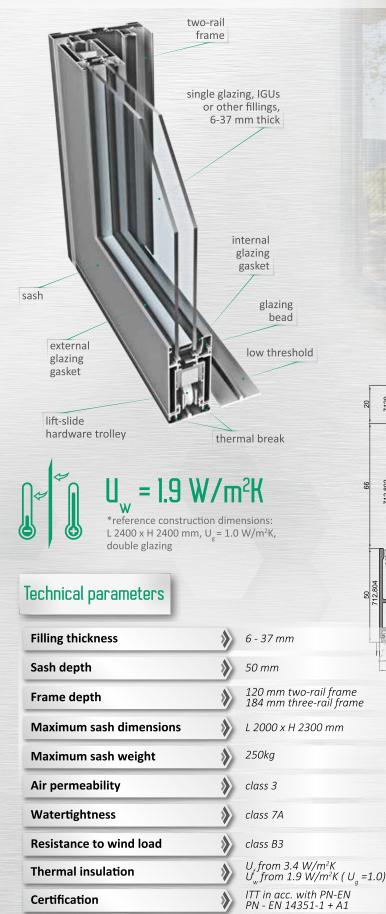
Filling thickness	*	2 - 23 mm
Sash depth	*	31 mm
Frame depth	*	55 mm two-rail frame 95.5 mm three-rail frame
Maximum sash dimensions	*	L 1500 x H 2500 mm
Maximum sash weight	*	120 kg

## SLIDING WINDOWS AND DOORS Ponzio SL600ttEVO



## SLIDING WINDOWS AND DOORS

# Ponzio SL1200tt





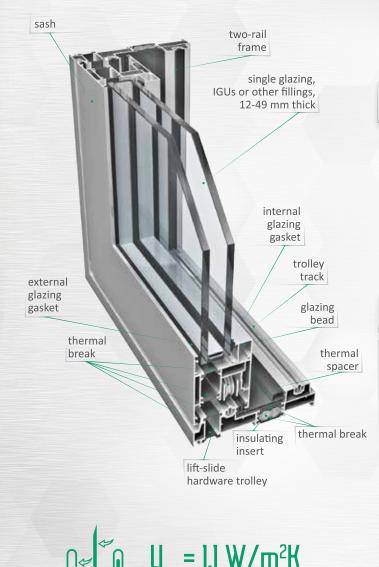
An insulated aluminium profile system designed for the construction of external lift-slide joinery such as balcony and loggia structures.

interconnected with other Ponzio systems

- Iow threshold solution available
- » two- to four-rail frames

### SLIDING WINDOWS AND DOORS

#### Ponzio SLI600tt



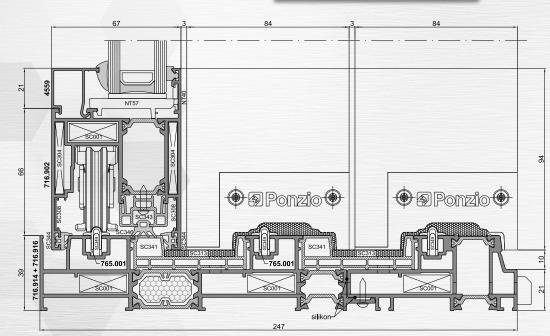
\*reference construction dimensions: L 2400 x H 2400 mm,  $U_g = 0.5 \text{ W/m}^2\text{K}$ ,

triple glazing

An insulated aluminium profile system designed for the construction of external lift-slide joinery.

- » large-dimension constructions with up to 8 sashes possible
- » high resistance to weather conditions
- » automatic drives available
- » corner floating mullion solution
- » low threshold available
- different thermal insulation variants with different insulation inserts: SL1600tt, SL1600tt+, SL1600ttHI

Filling thickness	*	12 - 49 mm
Sash depth	>>>	67 mm
Frame depth	>>>	160/154 mm two-rail frame 247/241 mm three-rail frame
Maximum sash dimensions	*	L 1800 x H 3200 mm
Maximum sash weight	*	300/400 kg
Air permeability	*	class 4
Watertightness	*	class 9A
Resistance to wind load	*	class C3/B5
Thermal insulation	*	U, from 2.3 W/m²K U <sup>'</sup> <sub>w</sub> from 1.1 W/m²K
Certification	*	ITT in acc. with PN-EN 14351-1+A11
Resistance to burglary	*	class RC2 in acc. with PN-EN 1627



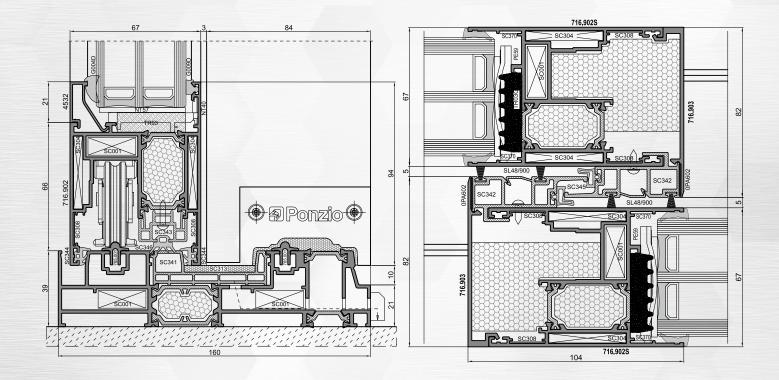
# SLIDING WINDOWS AND DOORS Ponzio SLI600ttHI



A variant of the SL1600tt lift-slide system, designed for the construction of high thermal performance aluminium joinery.

PLUS version: U<sub>f</sub> frame heat transfer coefficient as low as 2.1 W/m<sup>2</sup>K
 HI versionL: U<sub>f</sub> frame heat transfer coefficient as low as 1.8 W/m<sup>2</sup>K

# SLIDING WINDOWS AND DOORS Ponzio SL1600ttHI



Filling thickness	*	12-49 mm
Sash depth	*	67 mm
Frame depth	*	160/154 mm two-rail frame 247/241 mm three-rail frame
Maximum sash dimensions	*	L 1800 x H 3200 mm
Maximum sash weight	*	300/400 kg
Air permeability	*	class 4
Watertightness	>>>	class 9A
Resistance to wind load	>>>	class C3/B5
Thermal insulation	*	U <sub>r</sub> from 1.8 W/m²K U <sub>w</sub> from 1.0 W/m²K
Certification	*	ITT in acc. with PN - EN 14351-1 + A1
Resistance to burglary	*	class RC2 in acc. with PN - EN 1627

## **ADDITIONAL INFORMATION**

The extensive range of Ponzio product offers a wide variety of interconnected solutions which have been designed to constitute a coherent and compatible system.

Technical solutions	A wide range of solutions optimised with regard to quality, static durability, weather resistance, fire resistance and energy efficiency (in prefabrication and installation and in everyday use due to good thermal performance). Modern technologies and designs consistent with the latest architectural trends ensure durable, large-dimension constructions with large glazings and high comfort of use. Efficient water drainage and ventilation solutions are guaranteed to function properly in even difficult weather conditions in different locations around the world. Decades of experience in designing aluminium systems and our own R&D facilities allow short development times of bespoke solutions for the most demanding investors.
Aluminium profiles	EN AW – 6060 in acc. with PN-EN 573-3 temper T66 in acc. with PN-EN 515 Al Mg Si 0.5 F22 in acc. with DIN 1725 T1, DIN 17615 T1
Gaskets	EPDM synthetic rubber in acc. with DIN 7863 and ISO 3302-01,E2
Hardware and accessories	system elements and the best brands available on the market: SAVIO, ROTO, SOBINCO, FAPIM, GEZE, DORMA, SECURISTYLE
Fillings	single glazing, IGUs with any type of glass and non-transparent panels
Surface treatment	- polyester powder coating in acc. with Qualicoat available in all RAL colours; anodising and with wood-like appearance; anodizing in acc. with Qualanod in natural aluminium and coloured; wood-effect coating - polyester powder coating fulfills high anti-corrosion requirements
Thermal insulation	Determined analytically in FEM calculations as well as through testing; individual frame heat transfer coefficients $(U_{/}U_{o})$ for certain profile combinations as well as heat transfer coefficients for full constructions $(U_{u}/U_{cw})$
Certification	<ul> <li>ITT in acc. with PN-EN 14351 for window and door systems, in acc. with PN-EN 13830 for curtain wall systems</li> <li>ITB Technical Approvals</li> <li>ITB National Technical Assessments</li> </ul>



#### SOFTWARE

Ponzio offers dedicated software supporting the drawing, quotation and prefabrication processes for aluminium joinery. The software is regularly modified and updated to reflect the changes and improvements done in Ponzio systems.

#### PonzioTech

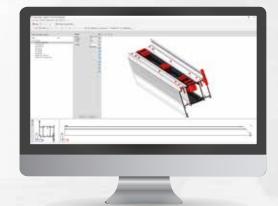
Based on the popular LiczOkno program used by aluminium joinery manufacturers, this is an advanced version dedicated for Ponzio products. Allows the design of complex window, door and curtain wall constructions and aids in profile selection with statics calculations.



#### LogiKal

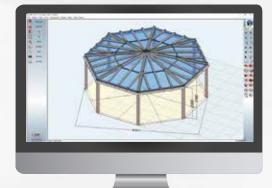
**>>** 

This program is delivered by OrgaData, a renowned company specialising in joinery manufacturing support software. LogiKal performs many necessary calculations, manages orders and prepares production plans. If the customer changes any dimension of the ordered product, each modification is stored in the order history. The program automatically creates construction cross-sections and is compatible with almost every type of CNC saw and machining centre available on the market.



#### Ponzio3D

Software delivered by KKP Soft-Ing Team. This program supports the 3D design process of winter gardens manufactured from PF152WG profiles. It generates clear cutting lists which indicate the position of each profile in the construction. Statical analysis of the construction is performed and possible alternative load-bearing elements are indicated. The program can also create visualisations of end-products using an imported background image.





Cekanowo, ul. Płocka 22 09-472 Słupno, Poland tel. +48 24 267 50 00 e-mail: ponzio@ponzio.pl www.ponzio.pl