

ALU



Offset pivot door system  
**AS 100 PIVOT**

 **aluron**  
ALUMINIUM SYSTEMS

# SYSTEM AS 100 PIVOT

## Offset pivot door system

The AS 100 Pivot system is used for the construction of single or double-leaf exterior doors, whose characteristic feature is an offset pivot axis that gives them a striking and remarkable appearance.

The system is constructed of ecological TPE gaskets and split anti-bimetallic dividers that protect the door from deformation caused by temperature differences. The door tightness is further improved by the solution of an automatic dropping gasket when closing the door leaf. The so-called falling threshold protects against the penetration of cold, dust, water and noise. The unique design is achieved by systemic concealment of all fasteners (i.e. screws and bolts).



## AS 100 PIVOT DOOR INFILLS VARIANTS



Glass insert

Door panel

Glass Line version with glued-on enamel glass

## DESIGN & FUNCTIONALITY



Can be combined with sidelights and toplights without duplicating profiles.



Compatible with linear drainage solution.



Possibility to use concealed hinges, electromotive lock and Instinct electronic hooks.



Possibility to equip the door with an elegant LED strip to illuminate the door threshold.



Access control via fingerprint reader, numeric keypad, remote control and smartphone.



The door can be opened inwards and outwards.



A wide range of striking door pull handles, including a recessed pull handle with LED lighting.



Rebate-free solution to speed up prefabrication and installation.



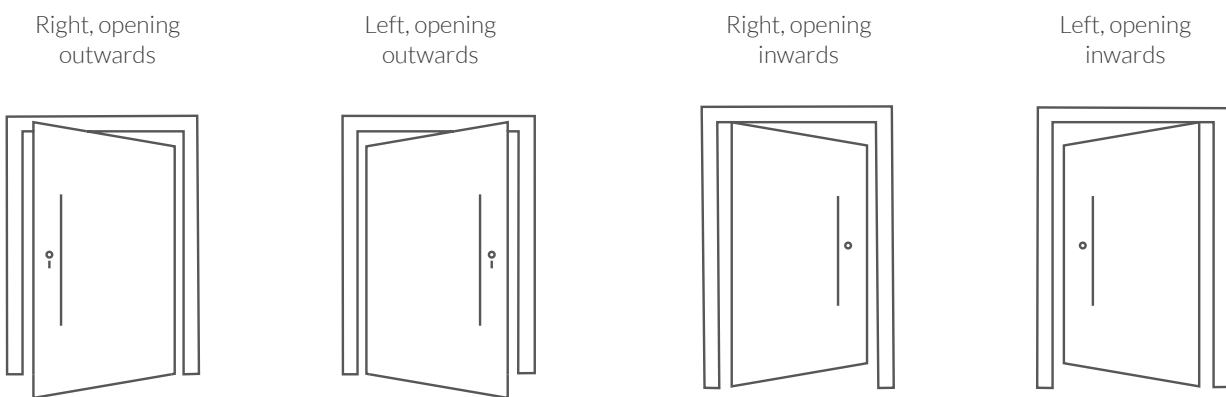
Freedom of choice of RAL colours, wood-like decours and anode from the Aluron Color Collection2 palette.

See our animation!



# TECHNICAL DRAWINGS OF THE AS 100 PIVOT SYSTEM

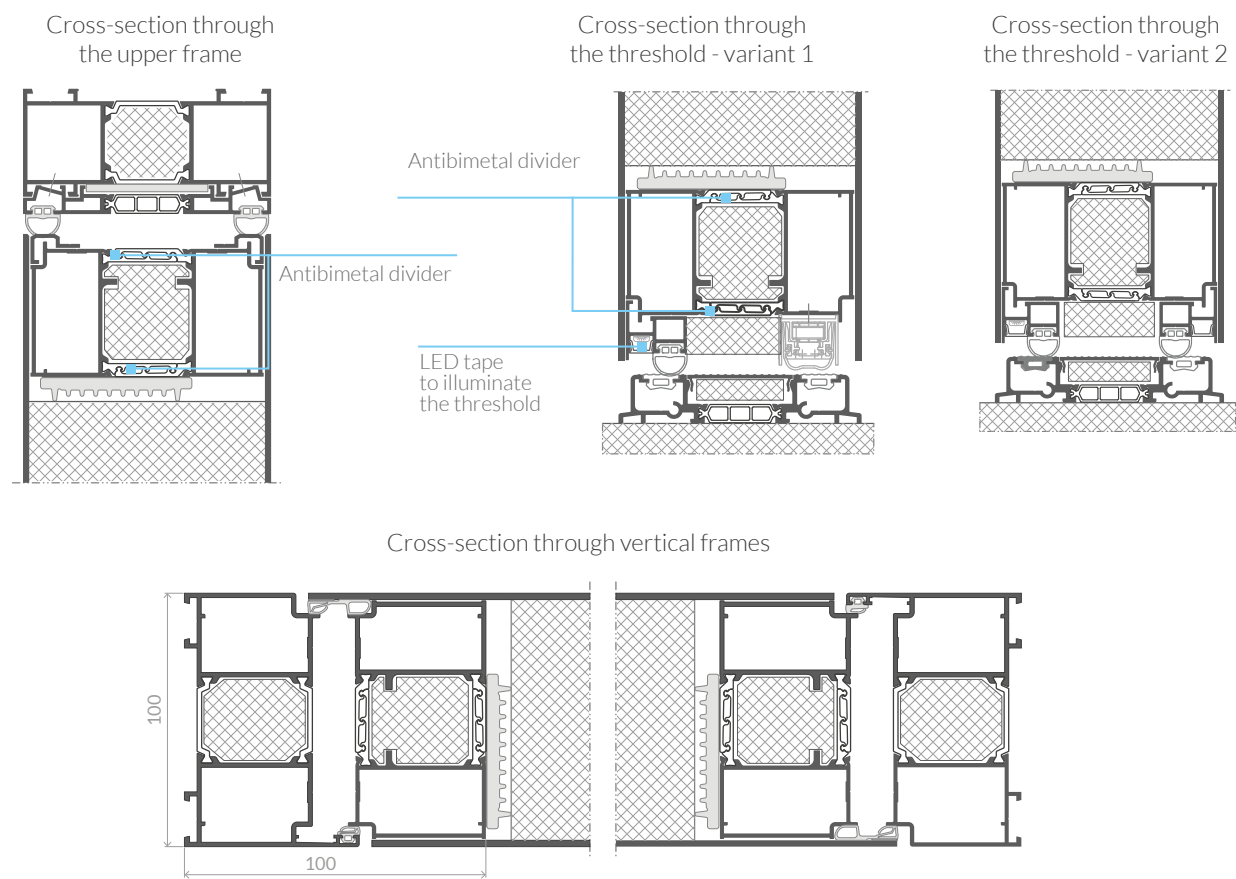
## DOOR OPENING DIAGRAM



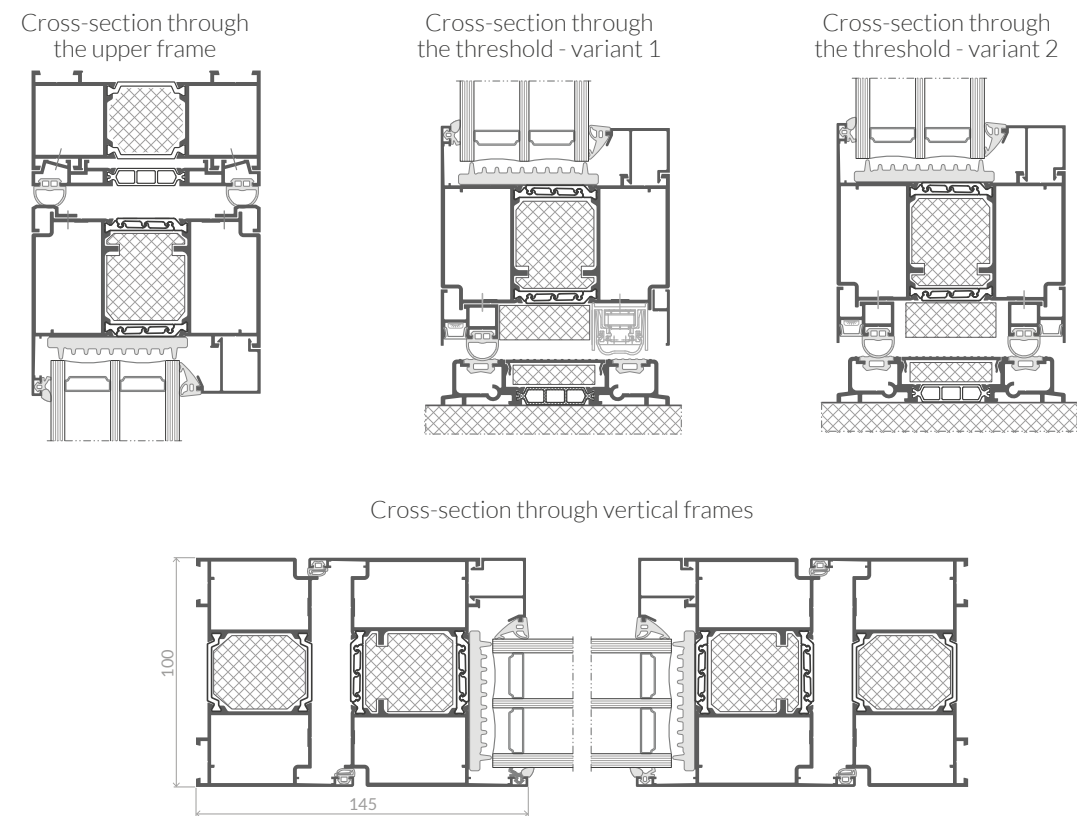
## TEMPERATURE DISTRIBUTION



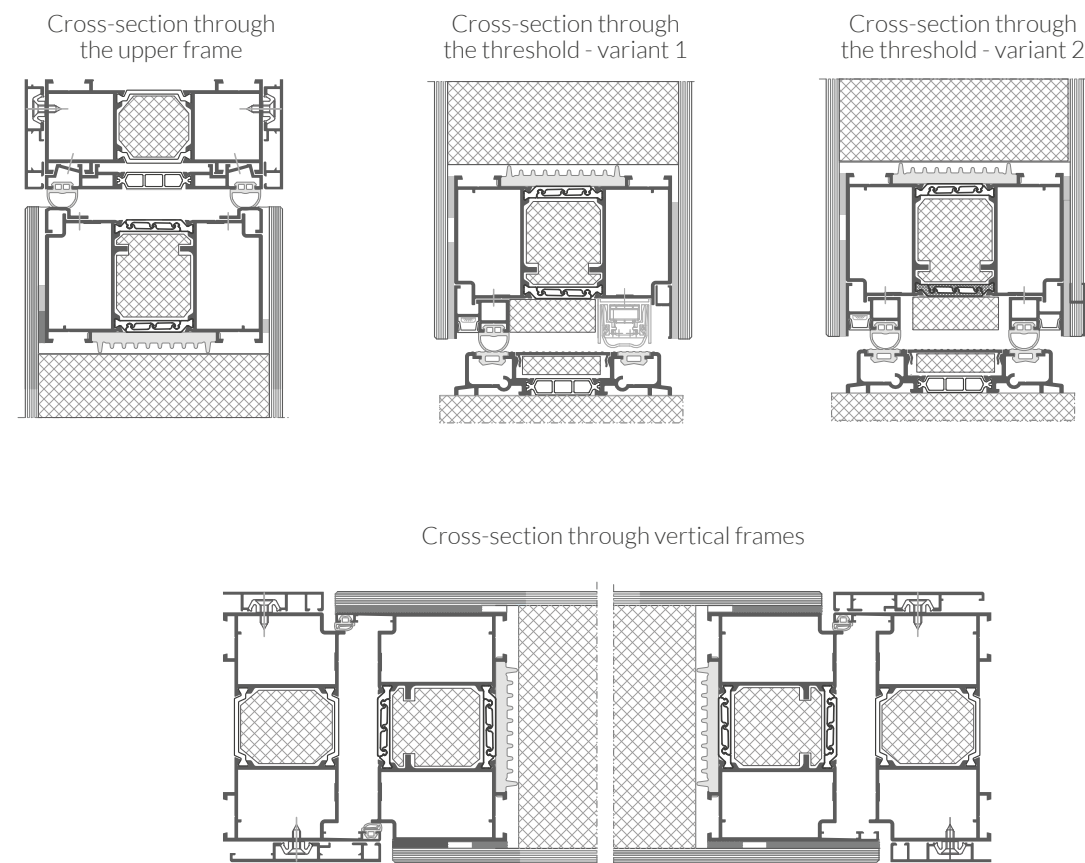
## VARIANT WITH DECORATIVE PANEL



## PIVOT DOOR WITH GLASS INSERT



## GLASS LINE VARIANT







## SYSTEM CHARACTERISTICS

3500 mm	1600 mm	500 kg	100 mm	94 mm (2-side) / 97 mm (1-side)	100 mm
Max. leaf height	Max. leaf width	Max. leaf weight	Frame depth - decorative panel	Leaf depth - decorative panel	Max panel thickness
100 mm	37-80 mm	145 mm	100 mm	100 mm	
Frame depth - glass insert	Glazing range - glass insert	Folding of frame and leaf - glass insert	Frame depth - Glass Line variant	Leaf depth - Glass Line variant	

## SELECTED SYSTEM PARAMETERS

from 0,6 W/m²K	class 3	class 3	class 3
Thermal insulation Ud	Air permeability	Water tightness	Wind load resistance

## COMPLEMENTARY ELEMENTS OF THE AS 100 PIVOT SYSTEM

### LINEAR DRAINAGE

It is to efficiently drain water from window and door structures. The gutter, mounted at floor level, effectively carries away condensate generated inside the structure, as well as that reaching from outside. The system provides for water drainage from underneath or from the side. Three types of masking covers: aluminium perforated profile and aluminium drainage grilles.



### INSTINCT BY MACO

It is a fully electronic front door locking system (without a key) which can be integrated with a smart home system. INSTINCT locks the door in a mechanical-automatic manner, using the weight of the leaf to provide the best pressure. The locking elements are fully concealed. The solution provides freedom of placement of the locking cassettes in the door leaf and frame. The solution is equipped with a day/night function.



### PIVOT HIDDEN HINGE

The system provides a choice between products from reputable companies: Wala, Frits Jurgens, and JNF. The maximum load capacity of the hinges is 500 kg. The solutions allow independent and smooth left/right adjustment separately on the upper and lower hinges and vertically. Pivot hinges from Wala are equipped with a cable culvert that allows cables to be routed to connect an access control system or LED lighting.



### MOTORIZED LOCKS

Multi-point motorized locks: The Autosafe 835 from Fuhr and the M-TS from Maco allow doors to be opened using a finger-print reader, code keypad, or smartphone.



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