



*PI 50N System*



**PI 50N**  
YAWAL System



## System description

It is an extended system of aluminium profiles designed for constructing various types of modern windows and doors, cabinets, partition walls and vestibules requiring thermal insulation. A range of materials allows for constructing doors with surface mounted hinges or hinges fixed to door rebate. It is a system having only slightly lower insulation coefficient as compared to more advanced systems at considerably lower price. At the same time it enables to use the same solutions as in case of better systems.

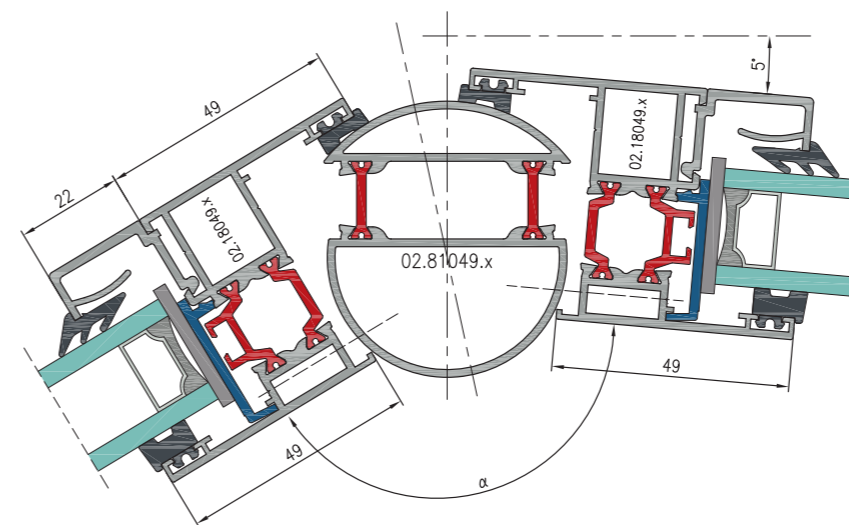
**PI 50N**  
YAWAL System



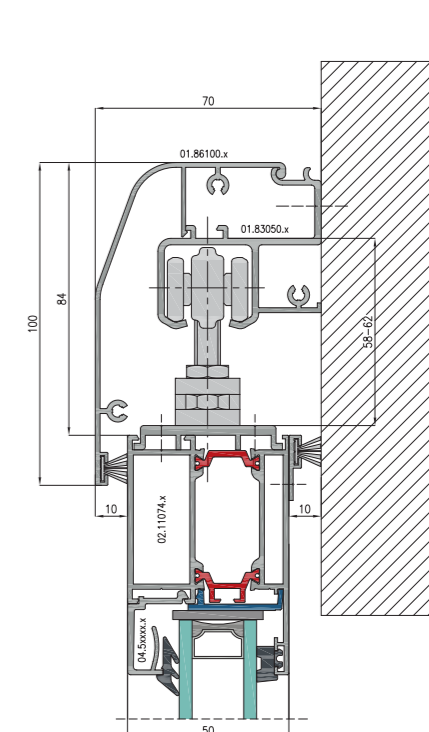
## Merits of the system

- the system enables constructing various types of solutions with the use of minimum number of profiles,
- rebate hinges and the whole system of rebate fittings that are quick to assemble facilitate production and improves usage advantages,
- additional profiles allow to build in doors in cabinet rows,
- the system enables to create structures of big dimensions on account of the application of reinforced profiles both from outside and inside,
- angular profiles allow for constructing structure combinations under various angles,
- the system has an original system of triple insulating,
- variety of fittings and two ways of hinges assembly ensure universality,
- possibility of combining with other Yawal systems.

## The system solutions and applications



90 – 170° angle solutions.



Suspended doors.

## Technical characteristics

Technical parametres	PI 50N window	PI 50N door	PI 50N outward
air permeability	class 4 - PN-EN 12207	class 3 - PN-EN 12207	class 4 - PN-EN 12207
water tightness	class E750 - PN-EN 12208	class E750 - PN-EN 12208	class E750 - PN-EN 12208
heat penetration rate	$U_f = 2,3 \pm 2,4 \text{ W/m}^2\text{K}$ PN-EN ISO 10077-2:2005	$U_f = 2,3 \pm 2,4 \text{ W/m}^2\text{K}$ PN-EN ISO 10077-2:2005	$U_f = 2,3 \pm 2,4 \text{ W/m}^2\text{K}$ PN-EN ISO 10077-2:2005
acoustic insulation	$R_w = 30 \pm 40 \text{ dB}$ - PN-EN ISO 140-3	$R_w = 30 \pm 40 \text{ dB}$ - PN-EN ISO 140-3	$R_w = 30 \pm 40 \text{ dB}$ - PN-EN ISO 140-3
Technical approval	ITB AT-15-4201/2006		

PI 50N				
Stylistic variants		STANDARD	SWING LEAF/SASH	OUTWARD*
Minimum inward/* outward window structure width visible externally.	Window frame profile	49 mm	61,8 mm	21 mm
	Sash profile	35,6 mm	83,8 mm	88,6 mm
Minimum outward door structure width visible externally	Door frame profile	32,2 mm	—	—
	Leaf profile	96,3 mm	—	—
Window structural depth	Window frame profile	50 mm	50 mm	50 mm
	Sash profile	59 mm	59 mm	59 mm
Glazing bead height		22 mm	22 mm	22 mm
Pane thickness		6-45 mm	6-45 mm	6-45 mm



**Yawal S.A.**

ul. Lubliniecka 36, 42-284 Herby,

tel.: +48 34 352 88 00,

fax: +48 34 357 41 42,

e-mail: [yawal@yawal.com](mailto:yawal@yawal.com)

[www.yawal.com](http://www.yawal.com)