

A modern solution of glass door – **PIU Glass Line**, is a perfect combination of glass and aluminium frame technology (flushed to wall and concealed in the wall). Aluminium available in several colours: natural anodized, bright brushed steel, brushed black. An absolute novelty is using a piano hinge the above-standard height of the glass panel and the glass finish with a thin aluminum frame in selected colours it's a solution searched by Architects. Shades of glass can be both classic, like graphite, black, optiwhite, as well as more sophisticated, i.e. with a sunken pattern of silver, gold, copper. They are a perfect solution for bathrooms, wardrobes, sauna's and spa's.



<b>PIU DOOR SYSTEM</b>	aluminium frame and glass door-leaf with a concealed piano hinge
<b>APPLICATION</b>	Inner glass door
<b>SIZE</b>	Height: from 206 to 240cm / width: 70, 80, 90 cm
<b>FRAME CONSTRUCTION</b>	Multi-chamber aluminium structure of exceptionally high rigidity; used on masonry walls or on plasterboard walls; aluminium colours: natural anodized, brushed black and bright brushed steel
<b>OPENING TYPES</b>	2 types of door frame: opening inwards (type A), opening outwards (type B) – giving the possibility flushed to wall door leads despite the different opening directions; in case of different opening directions the door height is always the same on the side where the door are flushed with wall
<b>DOOR-LEAF CONSTRUCTION</b>	glass
<b>GLASS THICKNESS</b>	8 mm
<b>GLASS COLOURS</b>	graphite, black, optiwhite, glass with a sunken pattern of silver, gold, copper
<b>LOCK</b>	Horizontal magnetic-mechanical lock (handle, wc, patent lock), vertical (wc, patent lock) or magnets (i.e. for sauna's)
<b>LOCK COLOURS</b>	Normally: natural anodized, brushed black and bright brushed steel
<b>HINGES</b>	Concealed piano hinge
<b>SEALS</b>	Rubber seals in colours: black and grey
<b>COUNTRY OF ORIGIN</b>	Poland
<b>MANUFACTURER</b>	PIU Design Sp. z o.o.

Chart 1 – FRAME HEIGHT CHART – model 5.0: TYPE A – opening inwards and TYPE B – opening outwards

STANDARD HEIGHT (cm) A i B	FRAME OPENING HEIGHT Ha (cm)		FRAME TOTAL HEIGHT Hb (cm)		HOLE IN THE WALL Hc (cm)	
	A	B	A	B	A	B
206 cm	206	204,8	210,4	209,2	211,5	210,5
210 cm	210	208,8	214,4	213,2	215,5	214,5
220 cm	220	218,8	224,4	223,2	225,5	224,5
230 cm	230	228,8	234,4	233,2	235,5	234,5
240 cm	240	238,8	244,4	243,2	245,5	244,5

Chart 2 – FRAME WIDTH CHART – model 5.0: TYPE A – opening inwards and TYPE B – opening outwards

STANDARD WIDTH (cm)	FRAME OPENING WIDTH (cm)	FRAME TOTAL WIDTH (cm)	HOLE IN THE WALL (cm)	
			BRICK	PLASTER
	Sa	Sb	Sc	Sc
70 cm	70	78,7	82	81
80 cm	80	88,7	92	91
90 cm	90	98,7	102	101

Opening width TYPE A and TYPE B, with the door opened at 90° width is decreases by 4 cm due to the thickness of the door leaf. If there is a need investment width of 90+ cm should be chosen.

Fig. 1 – PIU Door FLUSHED WITH THE WALL, OPENING INWARDS



Fig. 2 – PIU Door FLUSHED WITH THE WALL, OPENING OUTWARDS



Magnetic-mechanical locks for GLASS door - available locks:

- vertical: wc, patent lock
- horizontal: handle, wc, patent lock
- without the lock - magnets (handrail as an option)

Patent lock



WC



Handle



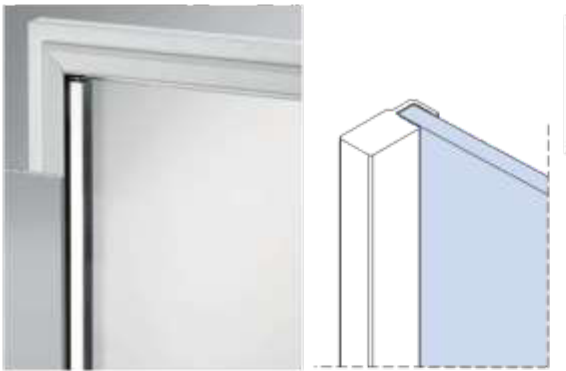
Patent lock



WC

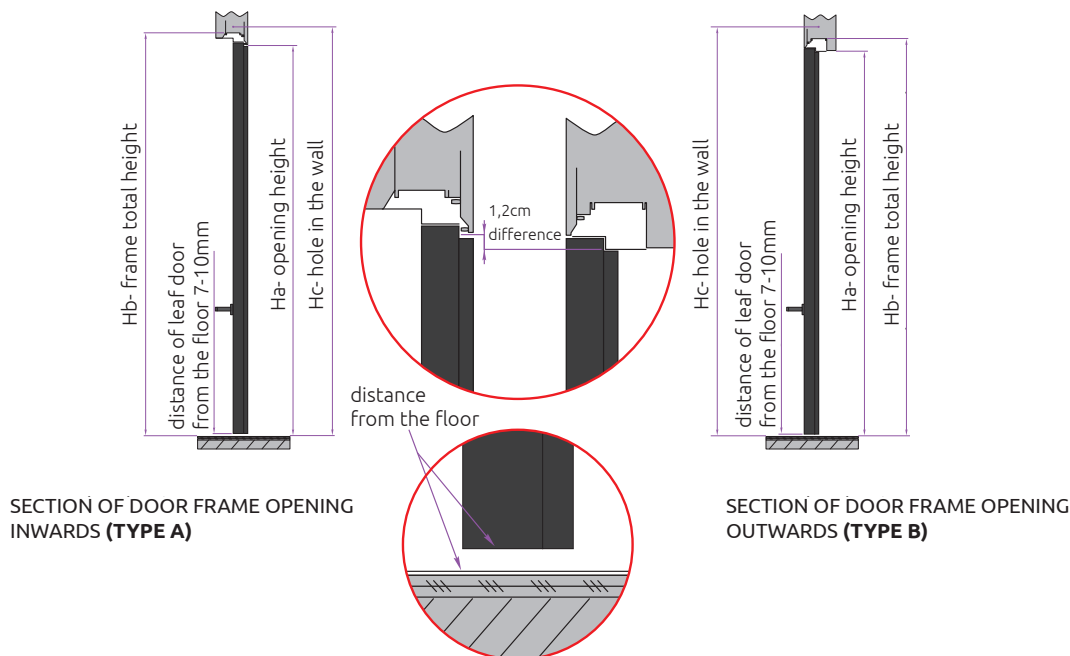


Concealed piano hinge

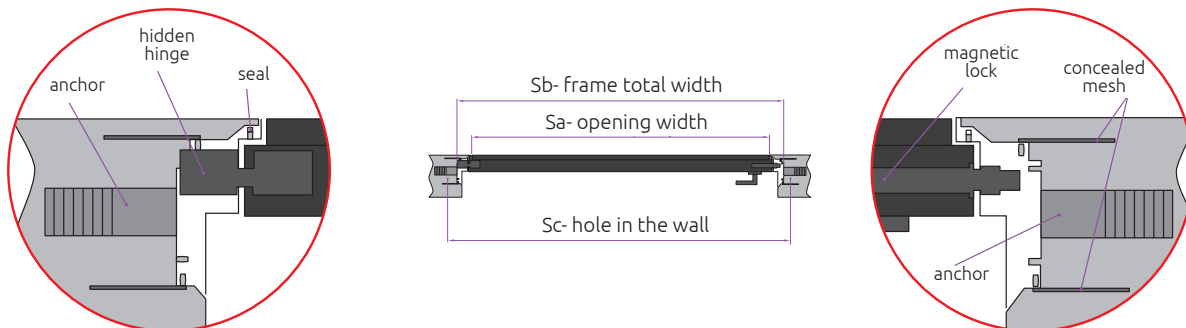


**Fig. 3 – SCHEME OF FRAME HEIGHT DIFFERENCE TYPE A AND TYPE B**

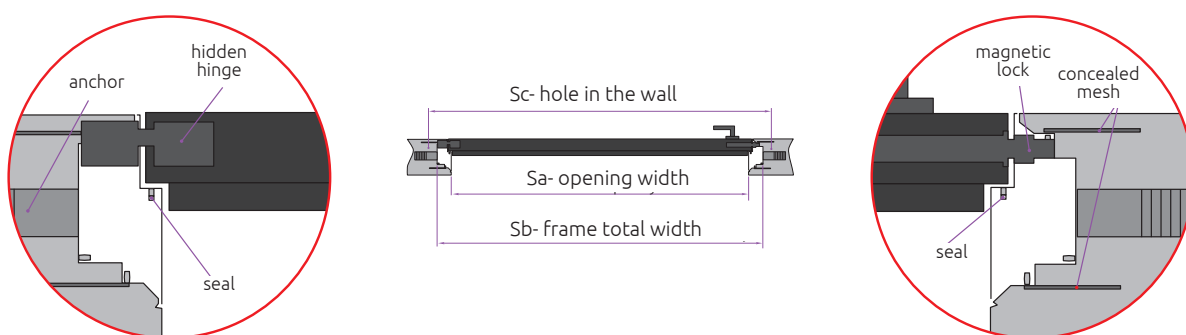
In order of having the same visible door height on the flushing with the wall side, with different opening direction doors, opening height and the frame is lower by 12 mm with the door opening outwards (TYPE B)



**Fig. 4 – SECTION OF DOOR FRAME OPENING INWARDS (type A)**



**Fig. 5 – SECTION OF DOOR FRAME OPENING OUTWARDS (type B)**



**Fig. 6 – PIU DOORS OPENING DIRECTIONS ACCORDING TO FRAME TYPE A I TYPE B**



\* in situation of joint floors, connection should be made 2,5cm from the flushed in the wall side into the interior of the room

### GUIDELINES FOR DOOR FRAME ASSEMBLY

The frame should be mounted on the initial building stage (or renovation)

- In the masonry wall** size of the door apertures must be adjusted according to the height and width charts for the proper door frame type. An installation of the doorframe in the hole should predict the surface of door flushed to wall. The frame should be mounted in the appropriate level, predicting the height of the finished floor. Mounting anchors, used for installation in pre-prepared doorways, as well as plaster mesh for installation under the plaster on the flushed to wall side, are delivered in set with the door frame. Doorways should have a margin, circa 10cm without plaster in order to install in it a plaster mesh. Foam for installation and insulation, added to the frame, should be applied locally in order to immobilise the frame during the mounting. Then the clearance between the frame and the wall should be filled with mortar in order to gain a rigid connection between the frame and the wall.
- In the plasterboard wall** there must be made a door aperture construction from profiles intended for door mounting. Steel profile for door frames (UA stud) must be installed according to the size of the appropriate type of the door frame, ceiling and floor to acquire it's rigidity. The frame should be mounted in the appropriate level, predicting the height of the finished floor. The wall cannot be closed with plasterboard in order to have the possibility of tightening the doorframe on the inner side with self-drilling screws, that gives the mounted frame it rigidity. Foam for installation and insulation should be applied along edges of the frame, between the frame and the wall. While mounting plasterboards, the edges contacting with frame should be cut at the angle of 45-50° from the flushed to wall side. Interlining should be used on the edges of the frame

### FINISHING THE DOOR FRAME

Aluminium primer coat and complete set of materials needed for mounting the frame are included in in the doorframe set.

Fig. 6 – MOUNTING OF PIU FRAME IN PLASTERBOARD WALL

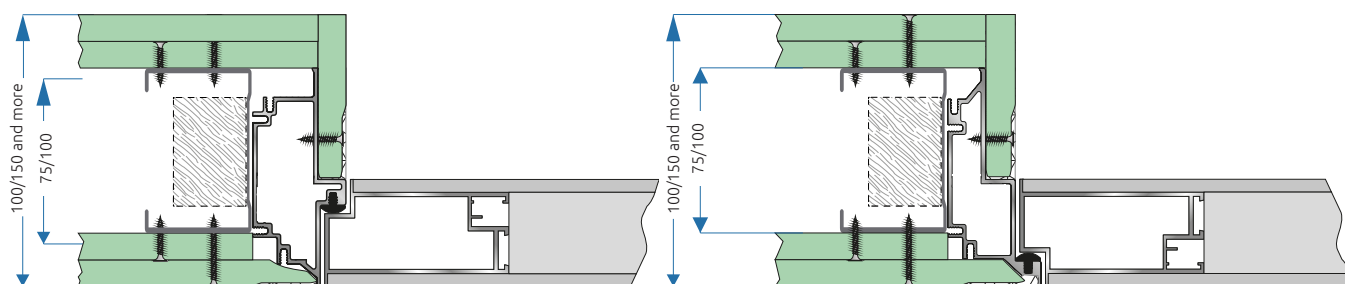


Fig. 7 – MOUNTING OF PIU FRAME IN MASONRY WALL

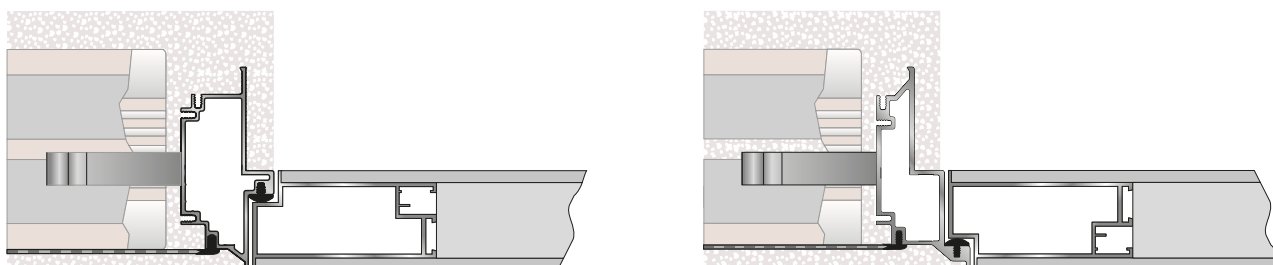


Fig. 8 – FINISHING PIU FRAME WITH CERAMIC TILE

