

PIU Aluminium Line BASIC – a system of high doors in aluminium flush-to-wall door frame and a door-leaf, gives the possibility of using the same finishing materials both on the doors and walls. There is also possibility of the door with a frame without the header – floor-to-ceiling door frame. Maximum thickness of wall materials must be up to mx. 5.5-6mm. PIU Aluminium Line construction gives the perfect protection for those materials, especially on the edges. Aluminium is available in several shades – natural anodized, bright brushed steel, brushed champagne, brushed dark brown or brown black. There are over 600-sets of different finishing materials. Finishing panels can be changed. In PIU Design system doors are flushed to walls finished with the same material.



PIU DOOR SYSTEM	aluminium frame and door-leaf made of natural anodized aluminium or several aluminium shades – bright brushed steel, brushed champagne, brushed dark brown or brown black or lacquered in accordance with RAL colour chart
APPLICATION	Inner door
SIZE	Height: from 206 up to 300cm / width: 70, 80, 90, 90+, 100, 120 cm
FRAME CONSTRUCTION	Multi-chamber aluminium structure of exceptionally high rigidity; used on masonry walls or on plasterboard walls
OPENING TYPES	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
DOOR-LEAF CONSTRUCTION	frame of the door-leaf is produced from anodized, brushed or lacquered aluminium in accordance with the RAL colour chart; filled with XPS; covered with prefabricated sheets of materials with a maximum thickness of 5,5-6mm
DOOR-LEAF THICKNESS	50 mm, high door stability
ALUMINIUM STRUCTURES	Natural anodized, brushed in several shades (bright brushed steel, brushed champagne, brushed dark brown or brushed black) or lacquered in accordance with RAL colour chart
DOOR-LEAF FINISHING MATERIALS	Over 600 finishing materials: acrylic panels, lacquered panels (with polyurethane topcoat in matte with 25-30 glosses, or in gloss with 80-90 glosses, veneered, architectural concrete, Lacobel glass and others
LOCK	Magnetic-mechanical lock; able to adjust for any possible type of locking: handle, master-key, toilet, patent lock or electric door strike
HINGES	Concealed hinges with adjustment in 3 dimensions. The door opens outwards, with an opening range of up to 180°
SEALS	Rubber seals in colours: white, black, brown and grey
ACCESSORIES	Door closer, drop down seal
TECHNICAL DOCUMENTATION	<ul style="list-style-type: none"> • Technical Approval ITB for the door system AT-15-8578/2011 • Certificate for hinges according to PN-EN 1935:2003 • Acoustic certificate confirming superior sound insulation properties (32dB)
COUNTRY OF ORIGIN	Poland
MANUFACTURER	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
250 cm	250	248,8	254,4	253,2	255,5	254,5
260 cm	260	258,8	264,4	263,2	265,5	264,5
270 cm	270	268,8	274,4	273,2	275,5	274,5
280 cm*	280	278,8	284,4	283,2	285,5	284,5
290 cm*	290	288,8	294,4	293,2	295,5	294,5
300 cm*	300	298,8	304,4	303,2	305,5	304,5

* without technica approval

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
94 cm (90 plus)	94	102,7	106	105
100 cm	100	108,7	112	111

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.

* Other widths on individual request

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

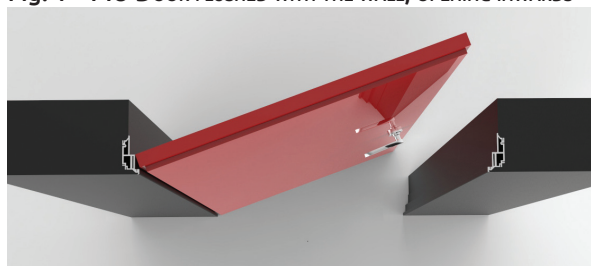


Fig. 2 – PIU Door FLUSHED WITH THE WALL, OPENING OUTWARDS

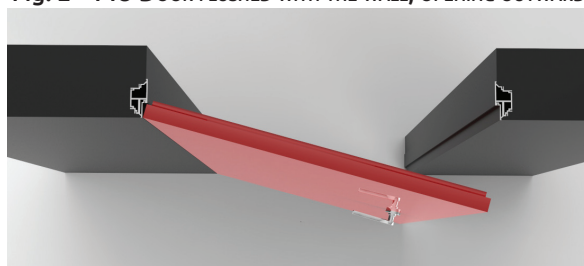


Fig. 3 – SCHEME OF FRAME HEIGHT DIFFERENCE TYPE A AND TYPE B

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)

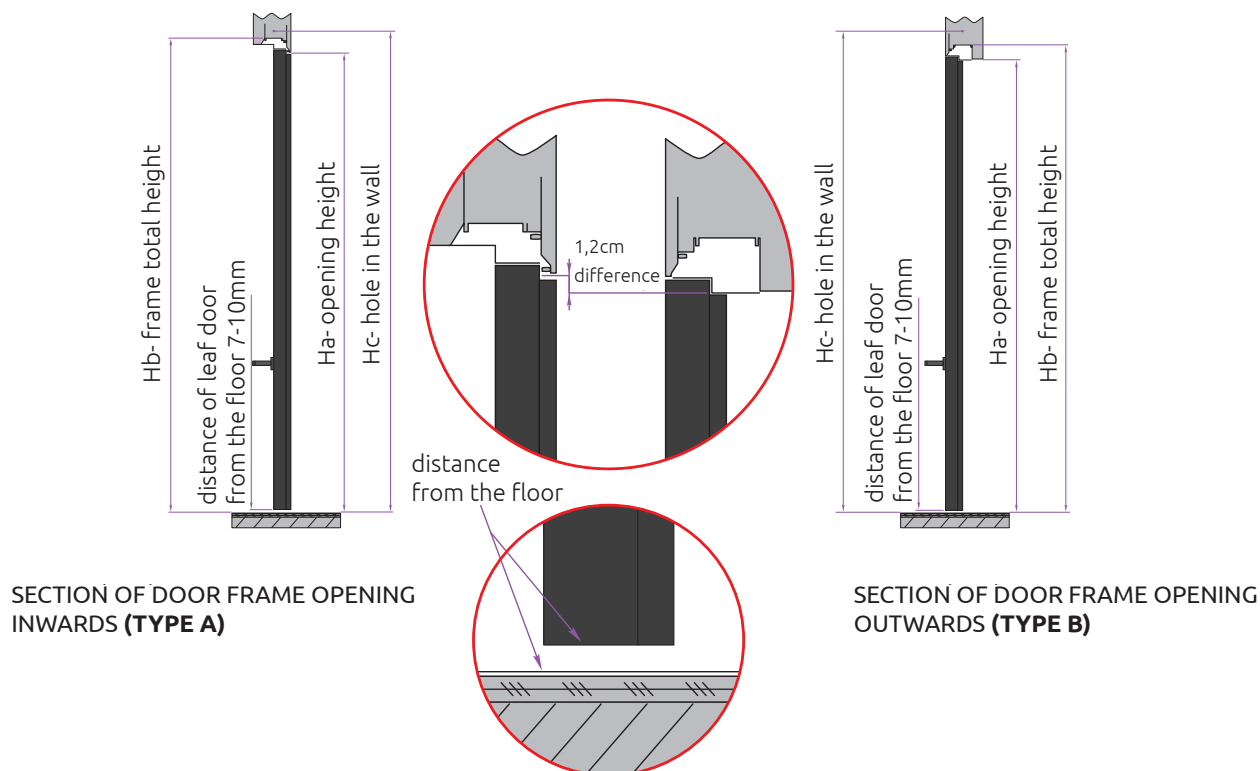


Fig. 4 – SECTION OF DOOR FRAME OPENING INWARDS (type A)

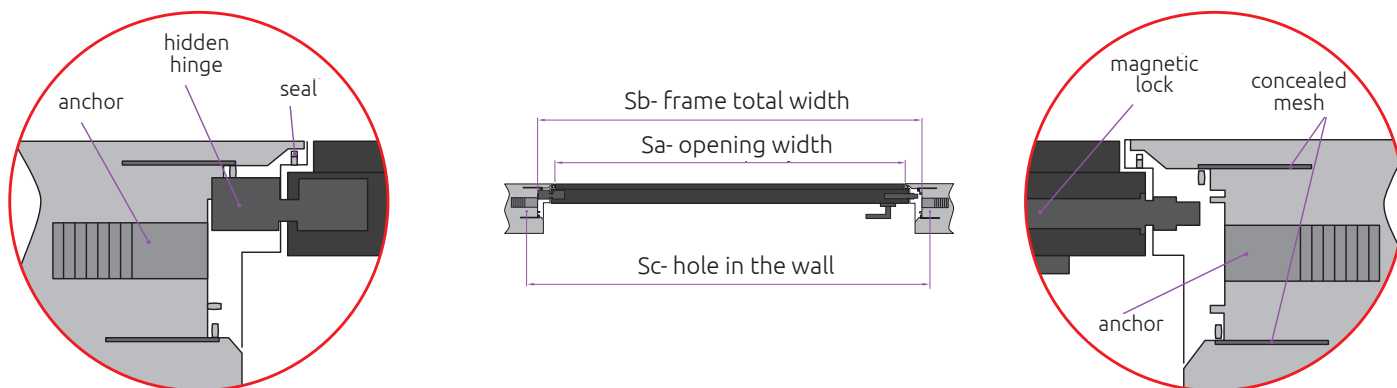


Fig. 5 – SECTION OF DOOR FRAME OPENING OUTWARDS (type B)

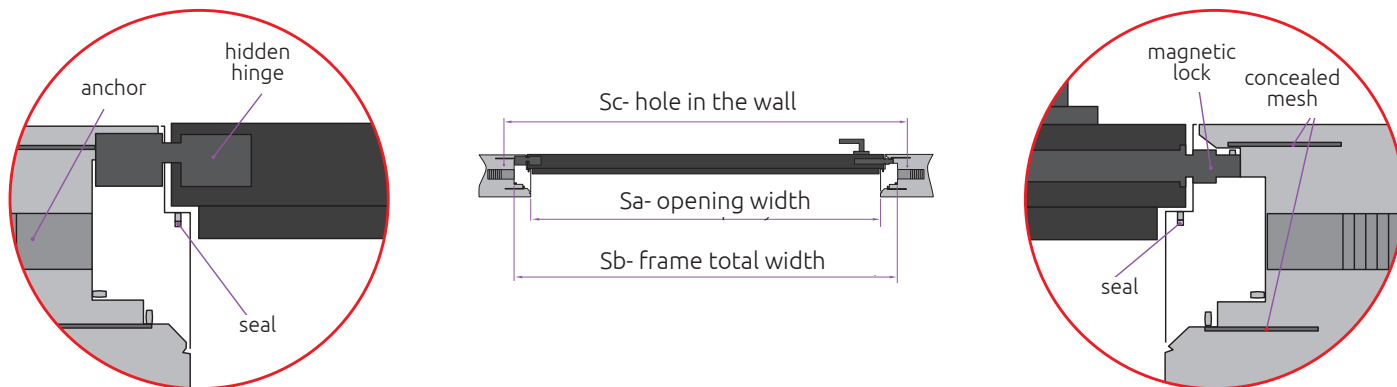


Fig. 6 – PIU DOORS OPENING DIRECTIONS ACCORDING TO FRAME TYPE A I TYPE B



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

Fig. 6 – MOUNTING OF PIU FRAME IN PLASTERBOARD WALL

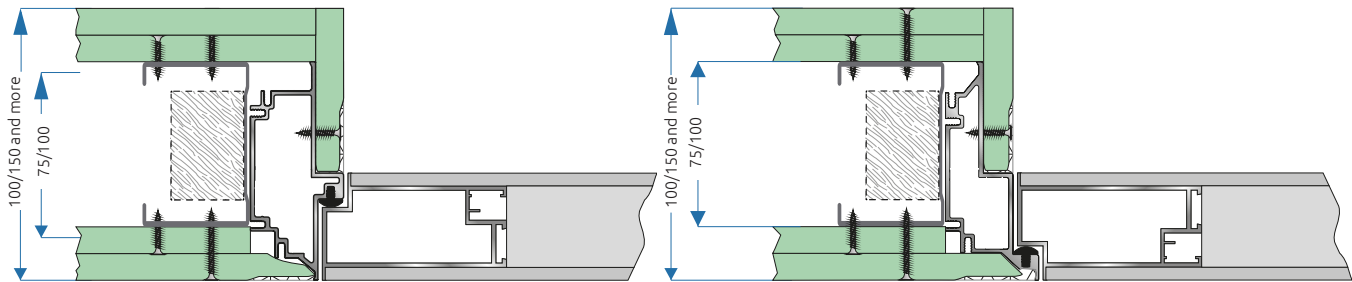


Fig. 7 – MOUNTING OF PIU FRAME IN MASONRY WALL

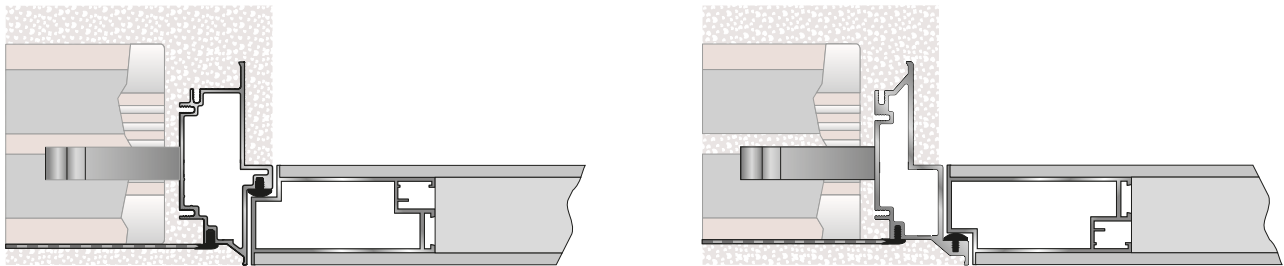


Fig. 8 – FINISHING PIU FRAME WITH CERAMIC TILE

