

## GUIDELINES FOR INSTALATTION OF WINDOWS AND DOORS FROM PVC AND ALUMINIUM

The proper operation and durability of PVC windows and balcony doors largely depend on their proper transport and installation.

This card includes basic principles of instalattion joinery in hole, mounting and sealing.

In case of instalattion unusual constructions, sets of doors and windows, windowsills, interior blinds, the thresholds of the doors and balcony windows etc. you should use system directories of profile producers.

Having regard to the recommendations of the investors, it should be remembered the compliance of the above with principles of installation and general principles of building constructing. Not applying to those rules may cause limitation of warranty rights.

### 1. TRANSPORT AND STORING

Joinery can be transported only in the vertical position threshold down, must be thoroughly protected against displacement and direct contact with windows containing elements, which may cause damage. With joinery of large and heavy windows may be dismantled sashes, glass contribution for transport it separately to prevent any damage. During the transport the fittings might get misadjusted. After installation the joinery it should be checked the proper setting and functioning of fittings and if necessary – regulation.

### 2. INSTALLATION JOINERY IN HOLE

Frame set the stage a way as not to generate thermal bridges and ensure adequate width on the perimeter beetwen the and the frame joinery and suitable place for bricks spacer and bearing ( Table 1 ).

TYPE	THE MINIMUM WIDTH OF THE GROOVE WITH A LENGTH ELEMENT						
	WITHOUT SHEAR WALL				WITH SHEAR WALL		
	TO 1,5 m	TO 2,5 m	TO 3,5 m	TO 4,5 m	TO 2,5 m	TO 3,5 m	TO 4,5 m
THE MINIMUM WIDTH OF THE GROOVE (s) FILLED WITH FOAM SEALANT (eg. Foam polyurethane) in mm							
WHITE PVC	10	15	20	25	10	10	15
COLOUR PVC	15	20	25	30	10	15	20
THE MINIMUM WIDTH FUGUE (x) FILLED WITH IMPREGNATED, COMPRESSED SEALANT in mm							
WHITE PVC	8	8	10	10	8	8	8
COLOUR PVC	8	10	10	12	8	8	8

Table 1.

Our windows are equipped with mounting profiles , which can be dismantled only in justified and exceptional cases.

### 3. INSTALLATION JOINERY IN HOLE

Taking into account the load acting on the builders:

- move joinery
- move wall,

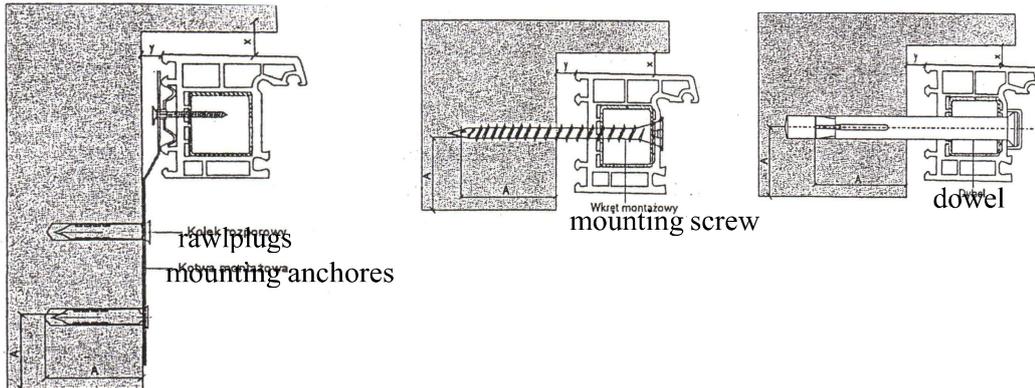
- weight joinery,
- the temperatura outside and inside spaces,
- humidity outside and inside spaces,
- the atmospheric agents (sunlight, rain, wind, sound) while selecting fixing elements (anchors mounting, rawlplugs, dowel, mounting screw ) connection to the building with their respective deployment it is to move them ( pic.1 ).

Anchors mounting should be permanently screwed to the frame.

Bricks bearing supporting frames (left on a permanent basis) shall be so arranged as to not deform under the influence of joinery profiles of temperature. All the elemements used for instalattion must have the appropriate approvals.

Joinery connected into sets should ensure water tightness of precipitation and air, proper operation of connected elemements. Use appropriate connectors matched system based on static calculations.

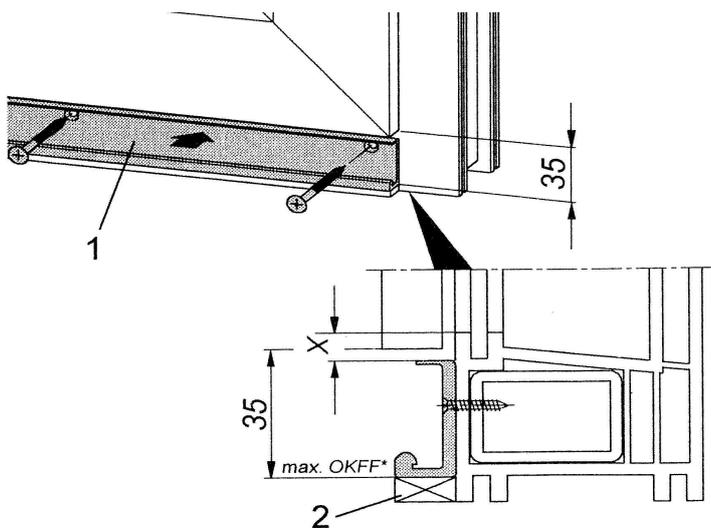
Spacing of screws connecting not exceed 700 mm, and the first connection placed at a distance of 150 mm for profiles of white and 200 mm for colour profiles from the corner. Provide adequate seal with strip plenum.



Drawing 1. A – you must apply to the producers guidelines, attachments and construction materials

In case if an installation of a window or terrace doors with a sliding fitting system, it is necessary to place bricks or a supporting board under the coulisse, so the weight of the casement does not lay solely on the coulisse.

In case of an installation in a building shell, it is necessary to inform the Client about the necessity of constrained usage of the above mentioned carpentry, until the coulisse support is accomplished. Otherwise it may be damaged and buckled (Picture 13).



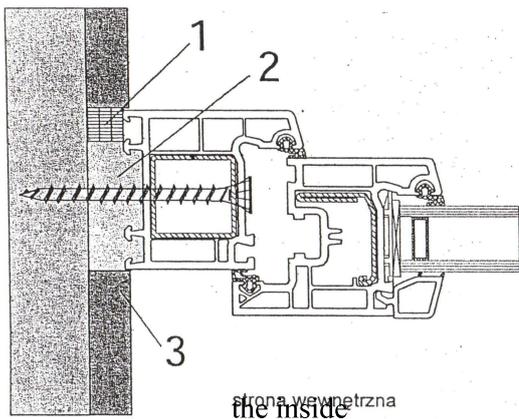
Rysunek 13: Prowadnica ramowa dolna - rysunek montażowy

- 1 - prowadnica
- 2 – klocek lub listwa spierająca

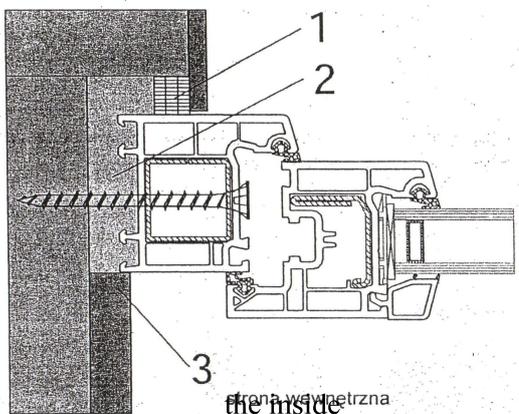
Depending on the type of opening, it is recommended that the arrangement of the anchorages frame and location of the launch pad and spacing as on drawing 2.

#### 4. SEALING AND INSULATION CONNECTION JOINERY WITH THE WALL

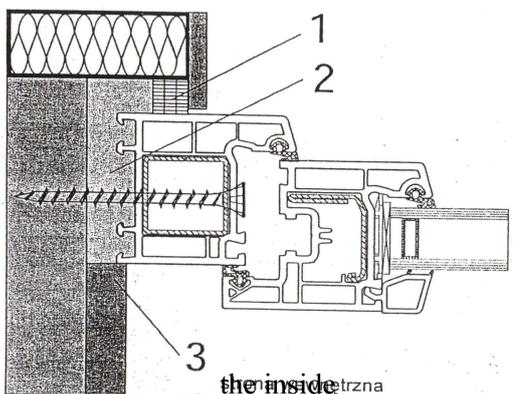
The last step in the installation is to seal the space between the frame and the window openings, having regard to the compatibility of chemical contact with the materials, adjacent to each other surfaces should be cleaned, prepared painting (depending on material) and shall comply with the requirements for temperature and humidity.



Drawing 3



Drawing 4



Drawing 5

1- outer layer, impregnated plenum strip or vapor permeable strip,  
2- middle layer: thermal and acoustical sealant, 3- inner layer: foil or vapor strip.

Rules of the seals between joinery and window openings:

- drawing 3 WITHOUT SHEAR WALL
- drawing 4 WITH SHEAR WALL
- drawing 5 WITH WARMING EXTERNAL.

The above recommendations relating to the installation are general (schematic), the installation should perform the authorized company crew and its leaves the decision on the selection of the method and the application of the relevant attachments after visual inspection of the place of installation.