

## Description and application

Rectangular wall external intake louvre used in ventilation installation intake and exhaust as the end of air intake pipes and ventilation holes in the walls of buildings, adapted for assembling in a door or window profile.

The special shape of the louvres / blades protects air intake hole before the precipitation. Additionally, on request it is possible to install protective mesh that protects before the bird, rodent and larger impurities (like the leaves) inside the installation.

## Material and workmanship

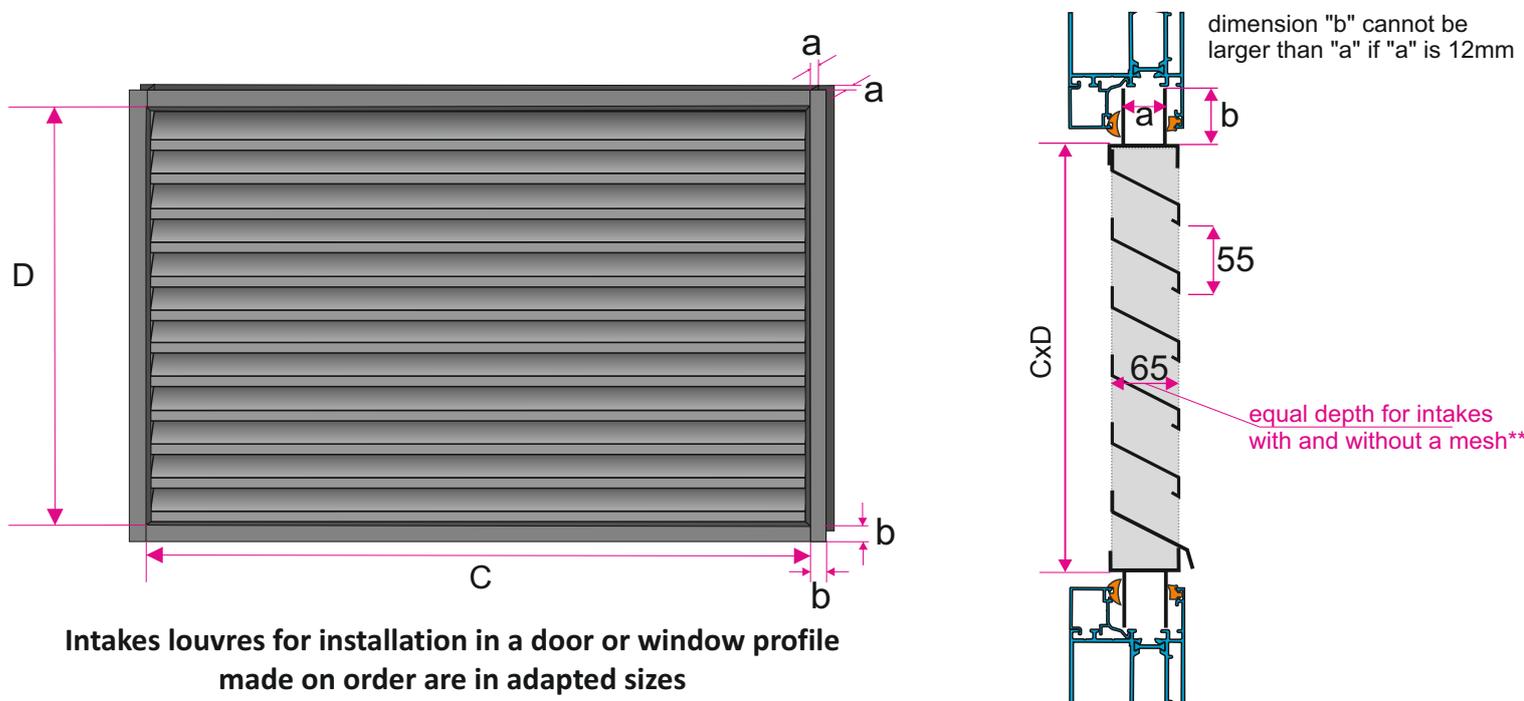
External intake louvre is available in three material variants: galvanized steel, aluminum - powder coated or stainless steel (type 1.4301 or 1.4404). On customer request powder coated to any color from the RAL palette (standard RAL9006).

Directly behind the intake louvre can be a steel mesh.

The CzP can be filled with lamellas of the CzS-A\*, CzS-A-HF or CzS-A-HV wall air intakes.

The manufacturer reserves the right to make technological changes.

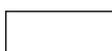
## Size and methods of mounting



In case dimension C > 2000 mm the manufacturer may propose sharing the intake (agreed with the client).

## Technical data- net free area

D [mm] \ C [mm]	300	400	500	600	800	1000	1200	1400	1600	1800	2000
Net free area [m <sup>2</sup> ], CzS-A lamellas spacing 55mm											
300	0,048	0,064	0,080	0,095	0,127	0,159	0,191	0,223	0,254	0,286	0,318
400	0,064	0,085	0,106	0,127	0,170	0,212	0,254	0,297	0,339	0,382	0,424
500	0,080	0,106	0,133	0,159	0,212	0,265	0,318	0,371	0,424	0,477	0,530
600	0,095	0,127	0,159	0,191	0,254	0,318	0,382	0,445	0,509	0,572	0,636
800	0,127	0,170	0,212	0,254	0,339	0,424	0,509	0,594	0,678	0,763	0,848
1000	0,159	0,212	0,265	0,318	0,424	0,530	0,636	0,742	0,848	0,954	1,060

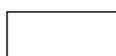
 one-piece air intake louvre

 air intake louvre divided into dimension C

\*CzS-A lamella with a spacing of 55 mm are used as standard

\*\*CzP depth when using CzS-A lamellas

D <sub>[mm]</sub> \ C <sub>[mm]</sub>	300	400	500	600	800	1000	1200	1400	1600	1800	2000
Net free area [m <sup>2</sup> ], CzS-A lamellas spacing 65mm											
<b>300</b>	0,048	0,064	0,080	0,095	0,127	0,159	0,191	0,223	0,254	0,286	0,318
<b>400</b>	0,064	0,085	0,106	0,127	0,170	0,212	0,254	0,297	0,339	0,382	0,424
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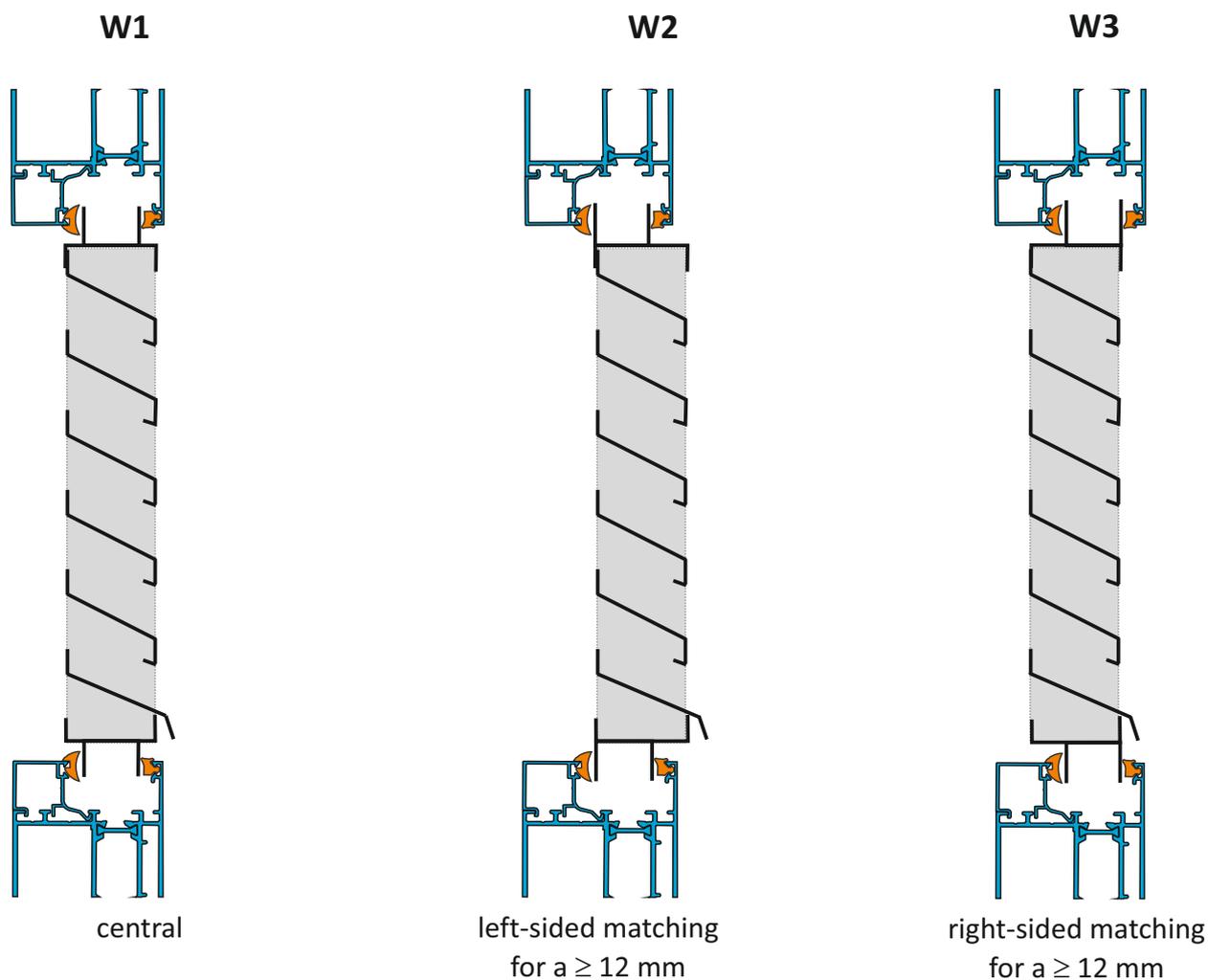


one-piece air intake louvre



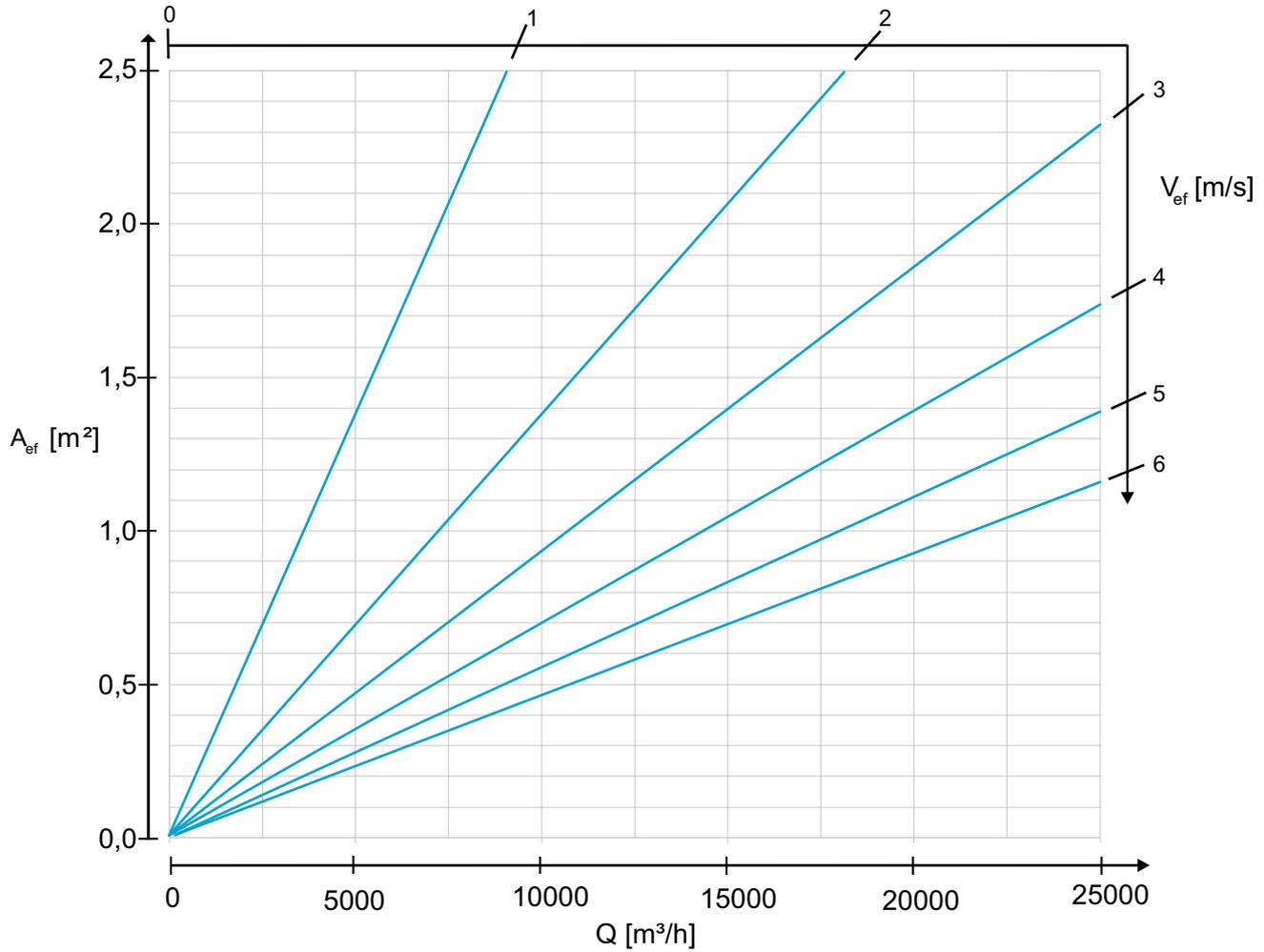
air intake louvre divided into dimension C

## Methods of mounting in a panel



## Technical data

### Effective speed depending on the flow air and the effective area

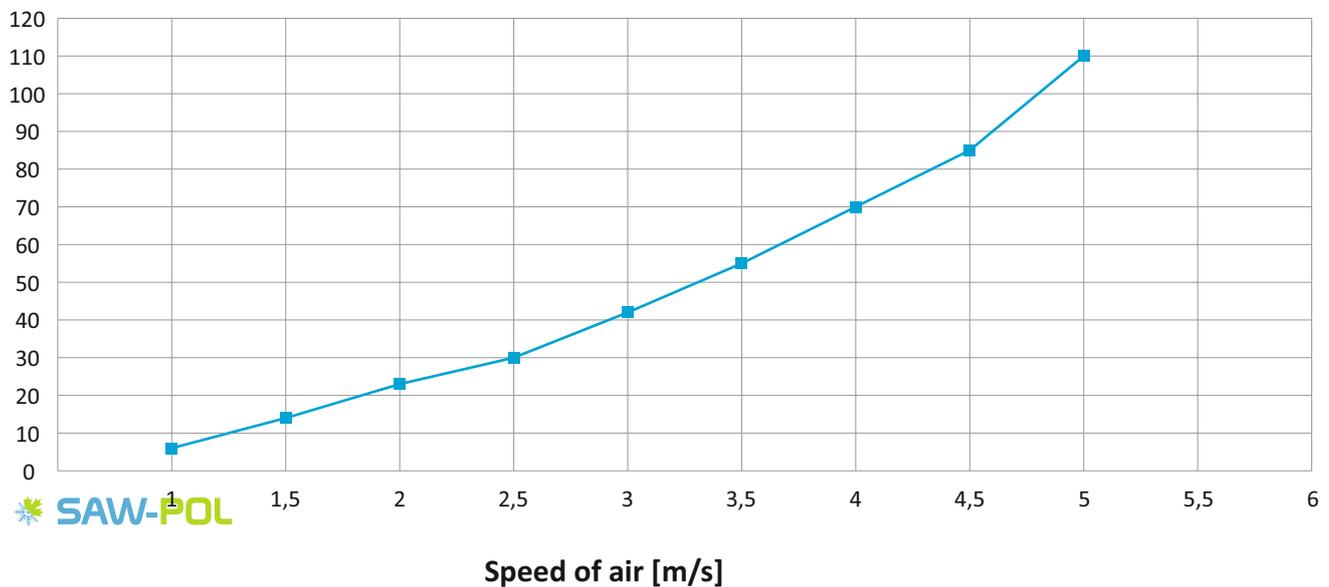


### Dependence of the pressure drop depending on the speed of air on intake louvre.

The recommended air speed is 2-3 m/s, max 5 m/s.

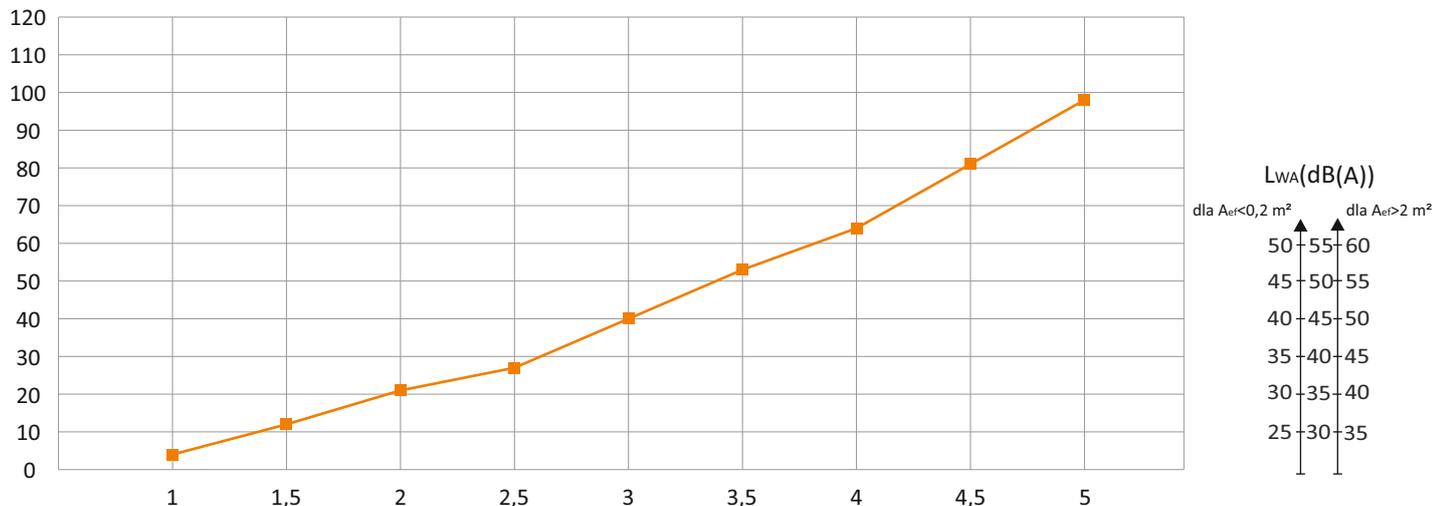
Pressure drop  
[Pa]

CzS-A with spacing blades 55mm



The recommended air speed is 2-3 m/s, max 5 m/s.

## CzS-A with spacing blades 65mm



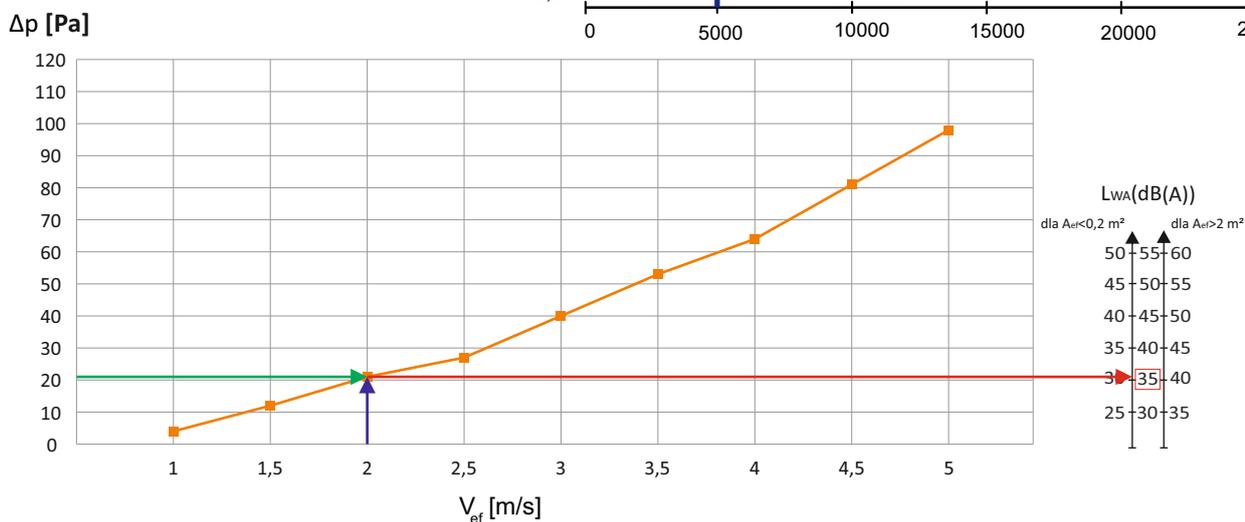
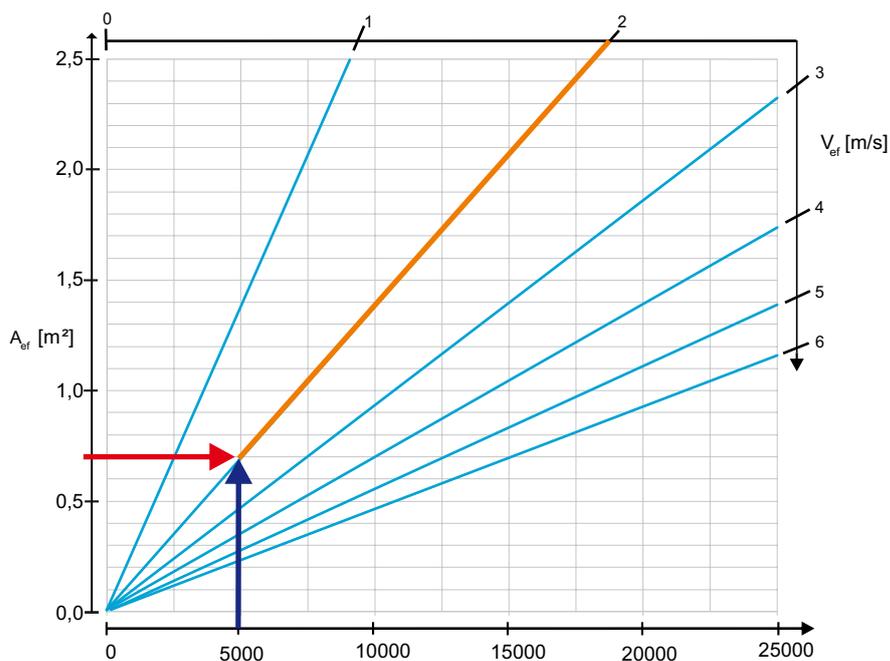
## Selection example

### EXAMPLE

- air volume flow  $Q=5000 \text{ m}^3/\text{h}$
- size of air intake louvre: 1400x1000 (Net free area = 0,742  $\text{m}^2$ )

### Reading from tables and graphs:

- effective speed:  $v_{ef} = 2 \text{ m/s}$
- pressure drop on the air intake louvre  $\Delta p = 21 \text{ Pa}$
- acoustic power  $L_{WA} < 35 \text{ dB}$  ( $0,2 \text{ m}^2 < A_{ef} < 2 \text{ m}^2$ )



## The method of placing an order

Please make orders according to the following formula:

**CzP / 'CxD' / 'a' / 'b' / 'S' / 'RAL' / 'M' / 'W'**

'CxD'	- mounting hole size (width x height) in mm
'a'	- depth of the frame
'b'	- frame width
'S'	- mesh <b>BS</b> - without protective mesh* <b>ZS</b> - with protective mesh
'RAL'	- louvre color according to RAL palette (standard RAL9006*)
'M'	- material: <b>OC</b> - powder coated steel <b>AL</b> - aluminum <b>KO</b> - stainless steel / acid proof steel (type 1.4301 or 1.4404)
'W'	- methods of mounting in a panel: <b>W1</b> - central* <b>W2</b> - left-sided matching <b>W3</b> - right-sided matching

\* - If you don't give the information will be used standard parameters.