

Droplet separator **PSG10**



APS Arosio has optimized its droplet separator.

The new anchor concept of the blades significantly improved the assembly times and the special design of the nylon molded profiles (pitch 25 mm and 33 mm), allows to apply more easily and safely the blade profiles PSG10, PSG20 and PSG33 (in their version of polypropylene or aluminium). The sturdiness and solidity of the system are also guaranteed by the new aluminium profile PSG-000000, offering the advantage of using this same code for the 3 different types of separators. The new aluminium profile PSG-100000 represents the ideal solution to built large separators. This droplet separator was designed to fully meet the requirements of the manufacturers and provides an integrated water drainage system that does not require further machining on the profiles.

The droplet separator is one of the most efficient instruments for eliminating humidity from the air. The droplet separator PSG10 represents the first tipe of APS Arosio separators. Designed with extruded polypropylene or aluminum blades, this product is very versatile for its different uses. Thanks to the careful analysis of its parts, it is possible to assemble the blades by exploiting the aluminum frame or its lighter version.

Material of the components

Frame	EN AW 6060 T6 extruded aluminium
Blade PSG10-0300 and PSG10-0R03	Extruded Polypropylene
Blade PSG10-0400	EN AW 6060 T6 extruded aluminium
Spacer PSG-04-FG0	Nylon pitch 25 mm / 0.98"
Spacer PSG-05-FG0	Nylon pitch 33 mm / 1.30"
Spacer KITPSG04AL	Aluminium + galvanized steel pitch 25 mm

Blades

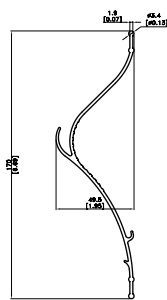
TECHNICAL DATA

Max profile lenght 6000 mm / 234"

PSG10-0400 Blade profile h. 170 mm / 6.69"



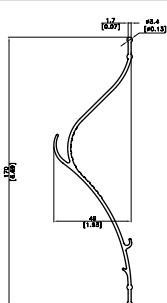
Material: **EN AW 6060**
Finish: **Natural / Painted / Anodized**
Treatment: **T6**
Weight: **1.269 kg/m**



PSG10-0300 Blade profile h. 170 mm / 6.69"



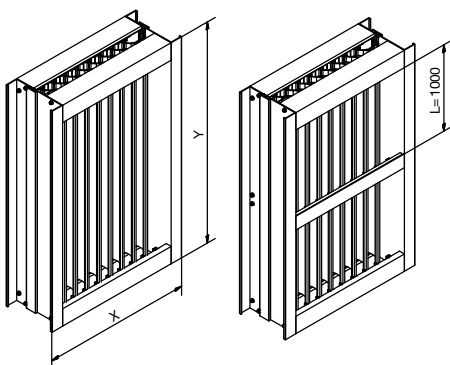
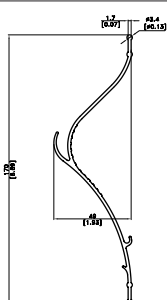
Material: **PP + Antibacterial certified VDI6022**
Weight: **0.470 kg/m**



PSG10-0R03 Blade profile h. 170 mm / 6.69"



Material: **PP**
Weight: **0.470 kg/m**



Cutting table

Top/Bottom profile PSG-000000	= X - 60 mm
Shoulder profile PSG10-0200	= Y
Aluminium blade profile PSG10-0400	= Y - 50 mm
Polypropylene blade profile PSG10-0300 / PSG10-0R03	= Y - 50 mm
Closing profile PSG-06-000	= Y - 48 mm
Reinforcement profile PSG-100000	= X - 60 mm

Profiles

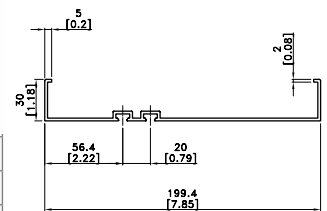
TECHNICAL DATA

Max profile lenght 6000 mm / 234"

PSG10-0200 Shoulder profile



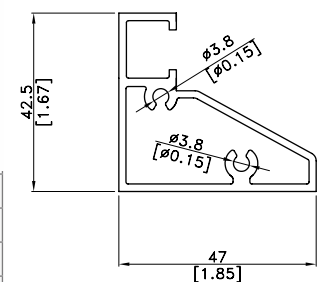
Material: **EN AW 6060**
Finish: **Natural / Painted / Anodized**
Treatment: **T6**
Weight: **1.614 kg/m**



PSG-000000 Top - bottom profile



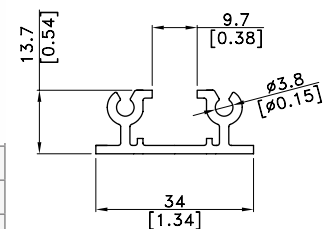
Material: **EN AW 6060**
Finish: **Natural / Painted / Anodized**
Treatment: **T6**
Weight: **0.952 kg/m**



PSG-100000 Reinforcement profile



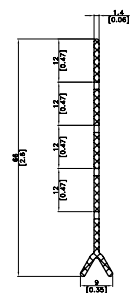
Material: **EN AW 6060**
Finish: **Natural / Painted / Anodized**
Treatment: **T6**
Weight: **0.433 kg/m**



PSG-06-000 Closing profile



Material: **Polypropylene**
Finish: **Natural / Painted / Anodized**
Treatment: **-**
Weight: **0.100 kg/m**



Components

PSG-04-FG0 25 mm pitch nylon profile



Material: **nylon**

Lenght: **225 mm**

Weight: **23 g**

PSG-05-FG0 25 mm pitch nylon profile

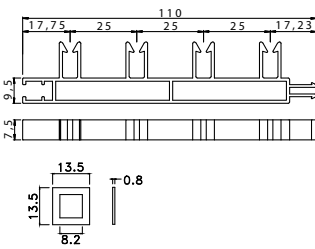


Material: **nylon**

Lenght: **297 mm**

Weight: **30 g**

KITPSG04AL 25 mm pitch aluminium profile



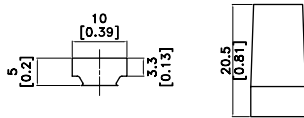
Material: **aluminium/galvanized steel**

Finish: **Natural**

Treatment: **-**

Weight: **1.269 kg/m**

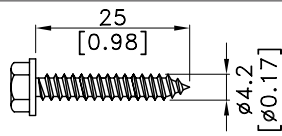
PSG-07-000 Nylon plug + GF



Material: **Nylon + GF**

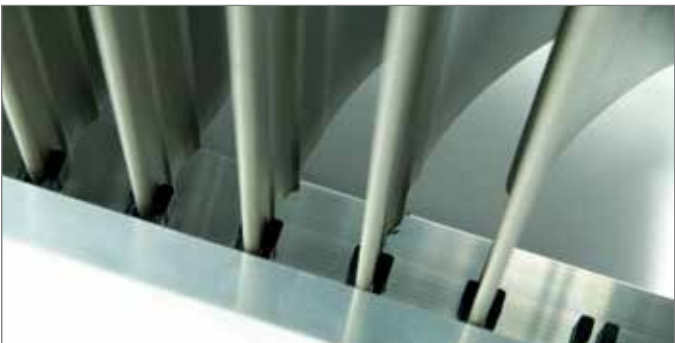
Weight: **3 g**

VTE1000000 Screw

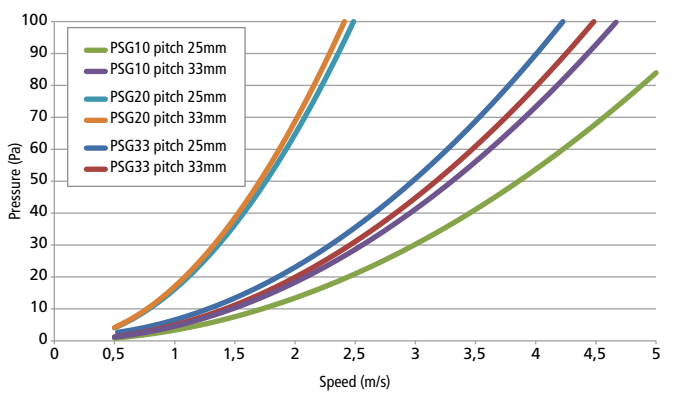
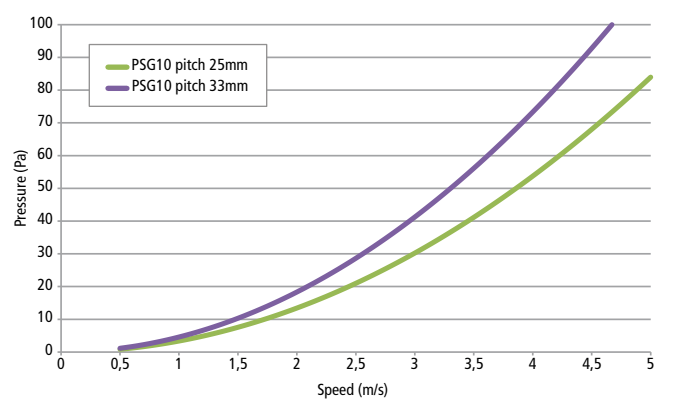


Material: **Steel**

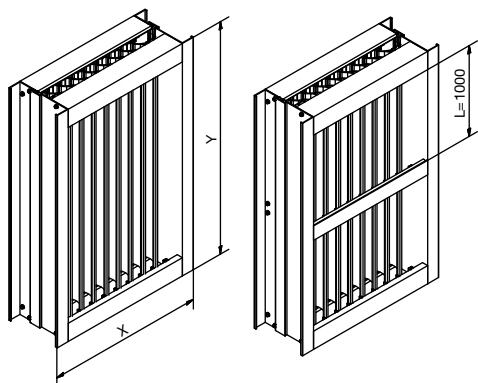
Finish: **Galvanized**



Test

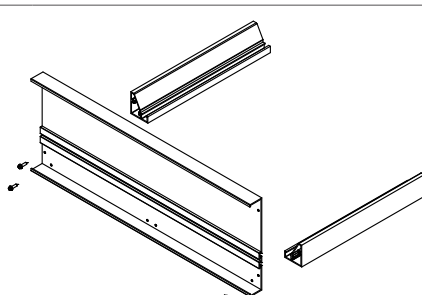
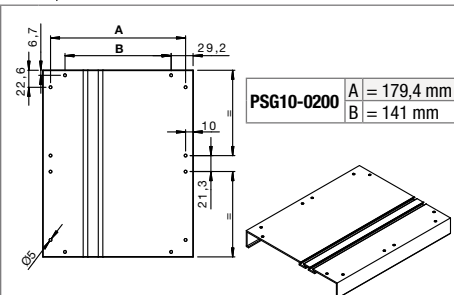


Assembly Instructions



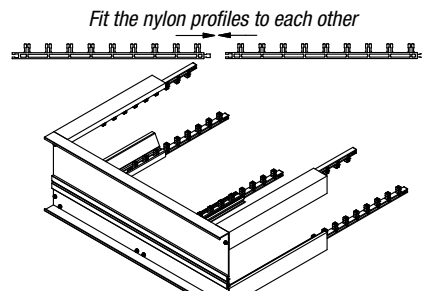
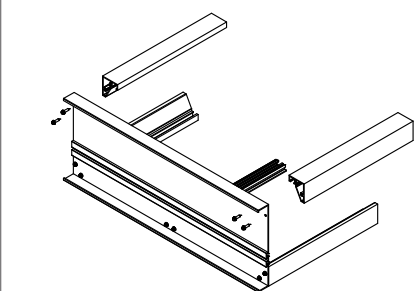
Cutting table

Top/Bottom profile PSG-000000	= X - 60 mm
Shoulder profile PSG10-0200	= Y
Aluminium blade profile PSG10-0400	= Y - 50 mm
Polypropylene blade profile PSG10-0300 - PSG10-0R03	= Y - 50 mm
Closing profile PSG-06-000	= Y - 48 mm
Reinforcement profile PSG-100000	= X - 60 mm



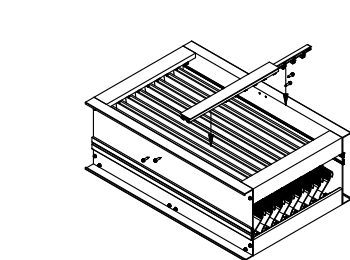
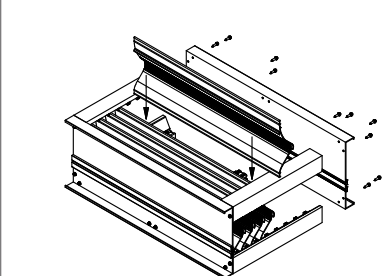
1 Cut the profiles following the table above. Proceed with the drilling of the shoulder profiles.

2 Fix the PSG-000000 profiles on the shoulder profiles.



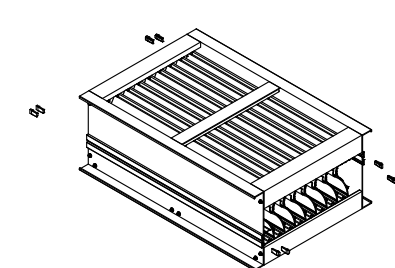
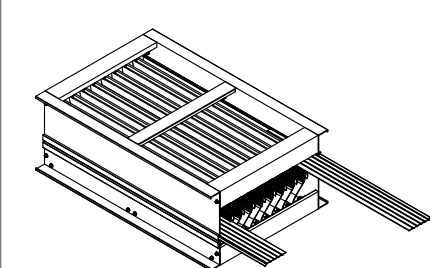
3 Repeat step 2. Fix PSG-100000 profile for each 1000 mm.

4 Join the nylon profiles PSG-04-FG0 or PSG-05-FG0. Cut to length and insert them in the PSG-000000.



5 Fix PSG10-0200, insert the blades profiles in the nylon profiles with a little pressure.

6 Fix the remaining PSG-100000 (including nylon pitch profiles) on PSG10-0200.



7 Insert the closing profiles PSG-06-000 in the specific channel of the PSG10-0200.

8 Insert the nylon plugs PSG-07-000 in the PSG10-0200 to complete the separator.

Aluminium profiles



PSG-000000 Top - bottom profile



PSG-100000 Reinforcement profile



PSG10-0400 Blade profile



PSG10-0200 Shoulder profile

Polypropylene profiles



PSG-06-000 Closing profile



PSG10-0300 Blade profile



PSG10-0R03 Blade profile

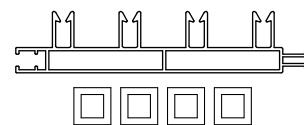
Components



PSG-04-FG0 Nylon profile pitch 25 mm



PSG-05-FG0 Nylon profile pitch 33 mm



KITPSG04AL Aluminium + galv. steel pitch 25 mm



PSG-07-000 Nylon plug + GF



VTE1000000 Screws