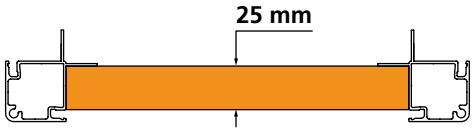
STOPPER System

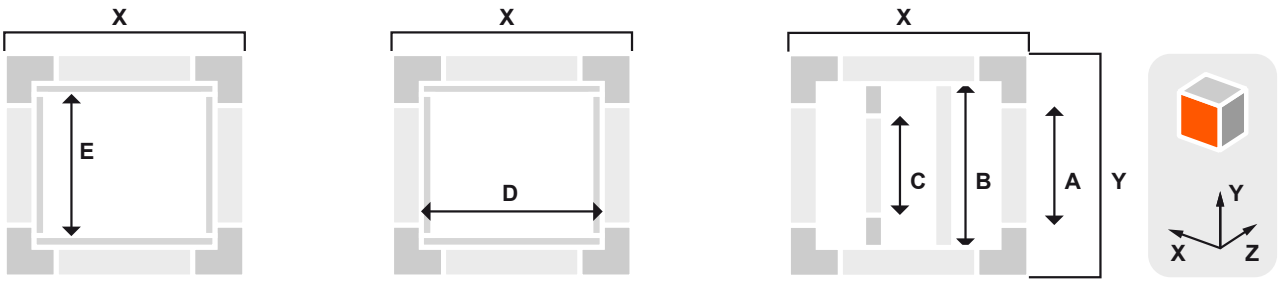
Panel 25 mm



The newly-designed APS Arosio frame for 25 mm/0.98” panel is equipped with a profile offering additional advantages over traditional frames. A special housing mounts the new extruded EN AW 6060 T6 “panel block”, which makes it possible to install the panels easily and without using screws. The Stopper system reduces assembly time and increases the sturdiness of large-size frames: just insert the profile in the slots on the corners and secure in place with M6 screws. The structure of the module is completed by a nylon cover and cap, which ensure perfect closure. The Stopper system makes installing or removing the panels a quick and simple operation. The performance of the unit remains unchanged even when the panels are taken down frequently, avoiding leaks caused by the repeated fastening of the screws.

The APS Arosio Stopper system is completed by a special hinge made of EN AB 46100 die-cast aluminium. The panel-fastening system introduced with the Stopper line requires the hinges to allow a 7 mm/2.75” gap while continuing to ensure the sealing of the gaskets. The new CBP-65-030 hinge performs this task with great precision, optimizing the distance between the holes and the placement on the uprights. Sturdy and lightweight, it can safely bear loads of more than 22 kg/48.5 lb. The new hinges are available with a black or natural aluminium finish. Also available are a nylon panel block and an EPDM foam gasket to be inserted into the groove on the Panel block profile to prevent dirt from depositing whenever the door is opened.

Cutting conditions of the profiles



A = Y - 112 mm / 4.37"	**D = X - 74 mm / 2.89"**
B = Y - 74 mm / 2.89"	**E = Y - 90 mm / 3.51"**
C = Y - 114 mm / 4.45"	

The formulas are valid for all sides of the module
Y = external dimension

Nylon accessories

TECHNICAL DATA	
External dimension	38 mm / 1.48”
Panel thickness	25 mm / 0.98”
Material	PA6 + GF 20%
Color	Black

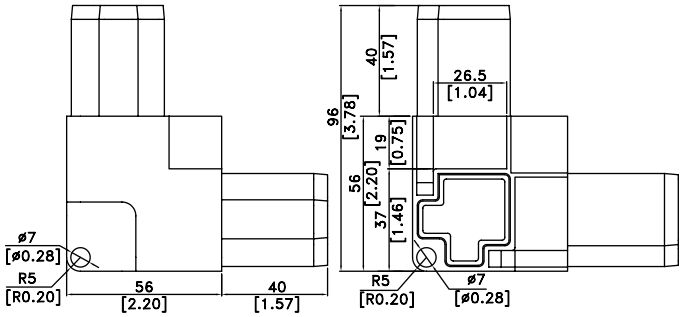
ABP330-250
Main corner

Weight: **104 g**

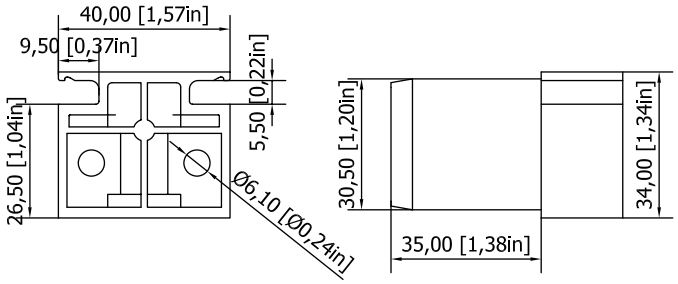
GBP240-250
Omega joint

Weight: **25 g**

ABP330-250



GBP240-250

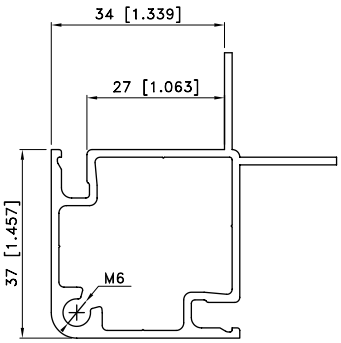


Aluminium profiles

TECHNICAL DATA	
Material	Extruded aluminium EN AW 6060
Treatment	T6
Color	RAL

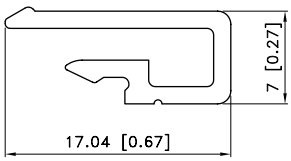
PBP130-250 Main profile

External dimension: **38 mm**
Panel thickness: **25 mm**
Weight: **0.955 kg/m**



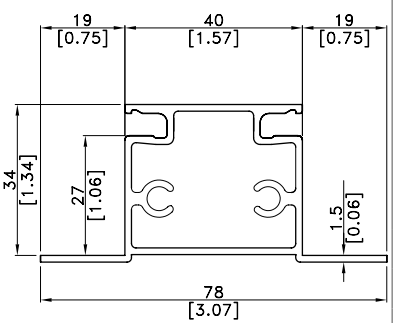
PBP-000000 Panel block profile

External dimension: **7 mm**
Panel thickness: **25 mm**
Weight: **0.126 kg/m**



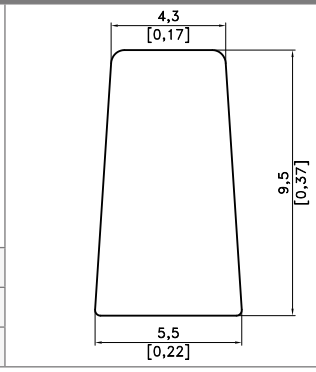
PBP331-250 Omega profile

External dimension: **40 mm**
Panel thickness: **25 mm**
Weight: **1.064 kg/m**



Gaskets

GA.0500000 Gasket for door panel profile

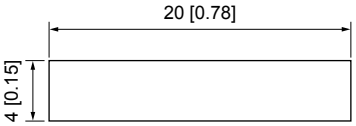


Nominal dimension: **-**

Material: **Foamed EPDM**

Weight: **-**

GUAR.020X4 Self-adhesive gasket



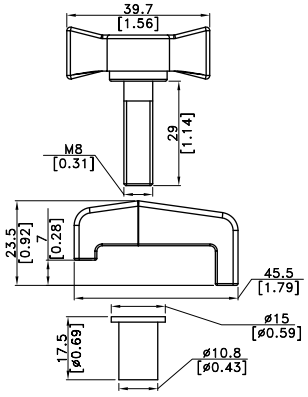
Material: **Foamed PVC**

Temperatura: **-20°C/+75°C**

Color: **Black**

Panel block

B50FGC.BPO Panel block



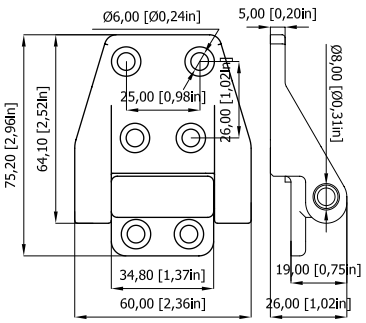
Nominal dimension: **-**

Material: **PA6 + GF 20%**

Weight: **20 g**

Hinge

CBP-65-030 Hinge



Nominal dimension: **60 mm**

Material: **EN AB 46100**

Weight: **100 g**

Color: **Black / Natural**

Screws

VTE6X45ZNN Screw M6 45 mm
VTE6X65ZNN Screw M6 65 mm

Material: **Black zinc nickel**

V-25-BR000 M6 25 mm Screws for omega joint

Material: **Zinc nickel**

Test of air tightness [internal report]

Corner	Profile	Sec	Liters	Coeff.	Area m²	Transformed f(400)	PR EN 1886:2003 Air leakage
ABP330-250	PBP130-250	60	8	0,133	4,61	0,0712	L1
		120	16	0,133	4,61	0,0712	L1

Tests carried out with standard assembly product, without using silicone. Dimension of the tested unit: 853x853x730 mm.
Aim of the test was to catalog the actual performance of the APS structures without extra arrangements.
These values have created a starting point to improve our products.

P3isomac
machinery panelling system

Stopper system air leakage test with P3isomac panels

Air leakage test with 25 mm / 0.98" panel

Structure with the following Stopper system components:

· Profile PBP130-250
· Profile PBP331-250
· Profile PBP-000000
· Corner ABP330-250
· P3ISOMAC panels 500 x 500 mm
· Hinge CBP-65-030
· Gasket 20 x 4 mm (panels)
· Gasket 20 x 4 mm (door)

The equipped structure dimensions have been proportioned for 500 x 500 mm panel.

The test has been made on two different levels of constant negative pressure; respectively at 100Pa and 880Pa. Evaluations have been executed after measurements at one minute time intervals.

The following air leakage values have been obtained:

Test at 100Pa: loss 20 l / min --> 1200 l / h = 1.2 m3 / h
Test at 850Pa: loss 70 l / min --> 4200 l / h = 4.2 m3 / h