

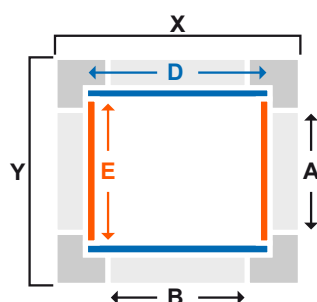
Joining corners make even more simple and accurate the assembly of different structures, due to the special "positioning spheres"

The Thermal Break 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 two apical "positioning spheres" on the joining corners also allow an obvious simplification in the process of joining different cubes.

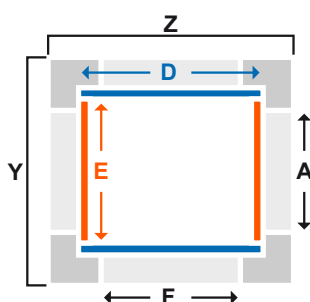
The Stopper system makes installing or removing the panels a quick and simple operation granting L1 leakage performance.

Thermal break version: all the advantages of the Stopper system plus the properties of thermal break concept.

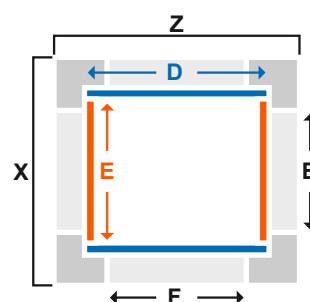
Cutting conditions of the profiles



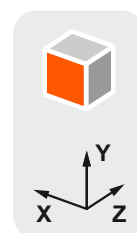
| |
|----------------------------|
| $A = Y - 151.4 \text{ mm}$ |
| $B = X - 151.4 \text{ mm}$ |
| $D = X - 113.4 \text{ mm}$ |
| $E = Y - 143.4 \text{ mm}$ |



| |
|----------------------------|
| $A = Y - 151.4 \text{ mm}$ |
| $F = Z - 125.7 \text{ mm}$ |
| $D = Z - 87.7 \text{ mm}$ |
| $E = Y - 143.4 \text{ mm}$ |



| |
|----------------------------|
| $B = X - 151.4 \text{ mm}$ |
| $F = Z - 125.7 \text{ mm}$ |
| $D = Z - 87.7 \text{ mm}$ |
| $E = X - 143.4 \text{ mm}$ |



The formulas are valid for all sides of the module
Y - X - Z = external dimensions

Nylon accessories

TECHNICAL DATA

External dimension

56 mm / 2.18"

Panel thickness

45 mm / 1.76"

Material

PA6 + GF 20%

Color

Black

ABP530-450

Main corner



Weight: **160 g**

GBP250-450

Omega joint



Weight: **36 g**

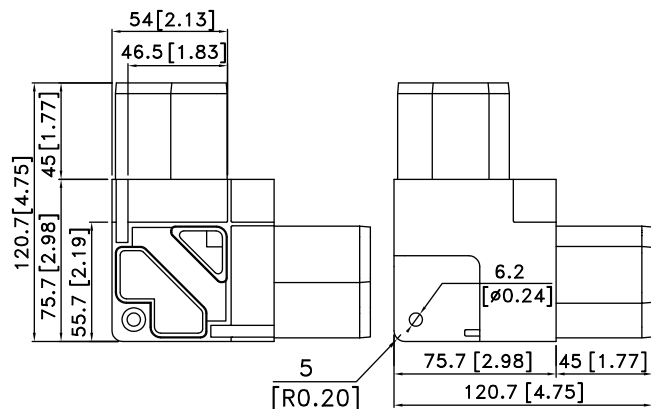
ABPG530-45

Joining corner

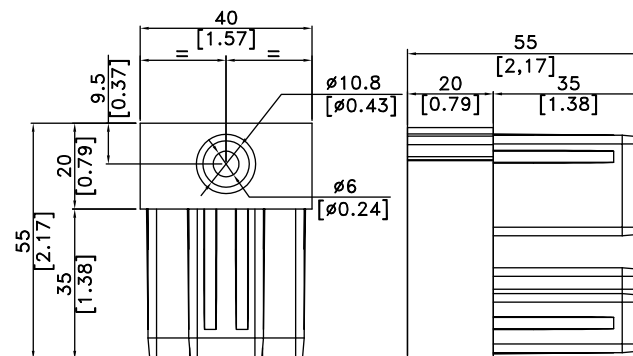


Weight: **150 g**

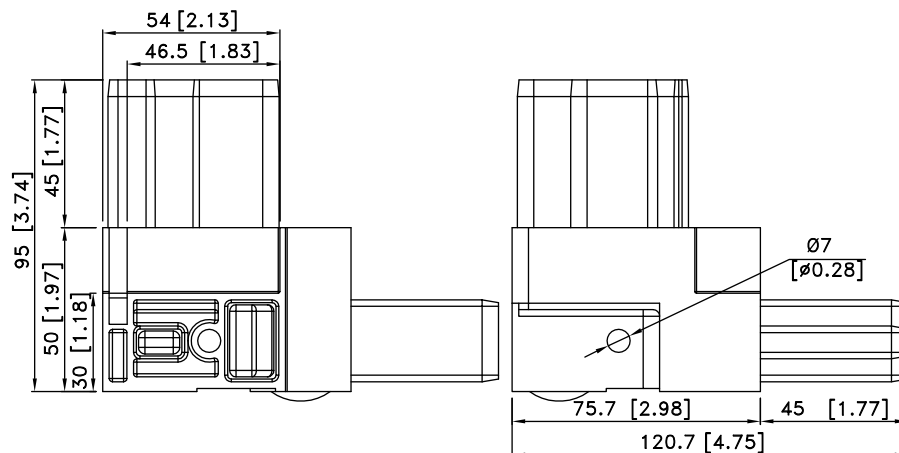
ABP530-450



GBP250-450



ABPG530-45



Aluminium profiles

TECHNICAL DATA

Material

Extruded aluminium EN AW 6060

Treatment

T6

Color

RAL

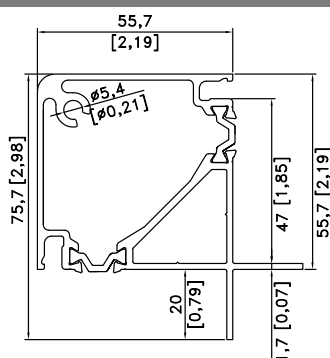
PTTBP150-45 Main profile



External dimension: **56 mm**

Panel thickness: **45 mm**

Weight: **1.861 kg/m**



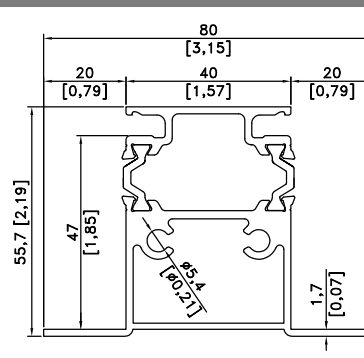
PTTBP351-450 Omega profile




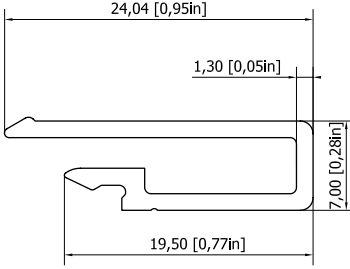
External dimension: **40 mm**

Panel thickness: **45 mm**


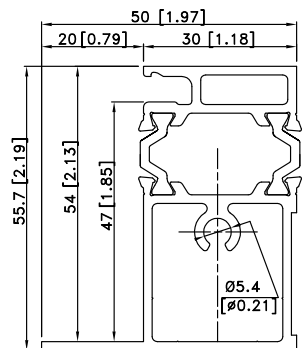
Weight: **1.742 kg/m**



PBP-100000 Panel block profile


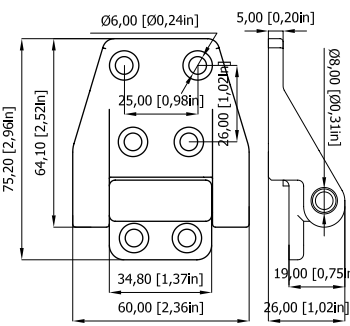
| | |
|---|---|
|  |  |
| External dimension: 7 mm | |
| Panel thickness: 45 mm | |
| Weight: 0.183 kg/m | |

PTTBP450-45 Joining profile

| | |
|---|---|
|  |  |
| External dimension: 30 mm | |
| Panel thickness: 45 mm | |
| Weight: 1.349 kg/m | |

Hinge

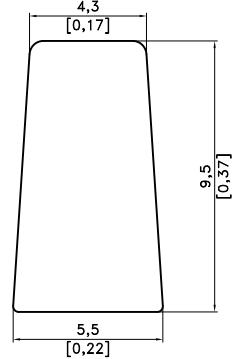
CBP-65-030 Hinge

| | |
|--|---|
|  |  |
| Nominal dimension: 60 mm | |
| Material: EN AB 46100 | |
| Weight: 100 g | |
| Color: Black / Natural | |



Gasket

GA.0500000 Gasket for door panel profile

| | |
|---|---|
|  |  |
| Nominal dimension: - | |
| Material: Foamed EPDM | |
| Weight: - | |



Screws

VTE6X45ZNN Screw M6 45 mm VTE6X65ZNN Screw M6 65 mm

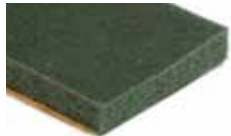
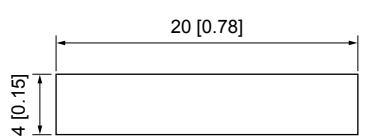
| |
|--|
|  |
| Material: Black zinc nickel |



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


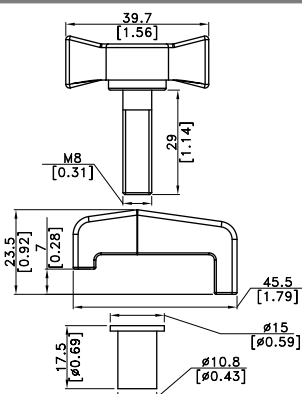
| |
|---|
|  |
| Material: Zinc nickel |

GUAR.020X4 Self-adhesive gasket

| | |
|--|---|
|  |  |
| Material: Foamed PVC | |
| Temperatura: -20°C/+75°C | |
| Color: Black | |

Panel block

B50FGC.BP0 Panel block

| | |
|--|---|
|  |  |
| Nominal dimension: - | |
| Material: PA6 + GF 20% | |
| Weight: 20 g | |

Test of air tightness [internal report]

| Corner | Profile | Sec | Liters | Coeff. | Area m ² | Transformed f(400) | PR EN 1886:2003 Air leakage |
|------------|-------------|-----|--------|--------|---------------------|--------------------|-----------------------------|
| ABP530-450 | PTTBP150-45 | 60 | 4,5 | 0,075 | 4,97 | 0,0151 | L1 |
| | | 120 | 9 | 0,075 | 4,97 | 0,0151 | 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 45 mm / 1.77" panel

Structure with the following Stopper system components:

- Profile PTTBP150-45
- Profile PTTBP351-45
- Profile PBP-100000
- Corner ABP530-450
- P3ISOMAC panels 490 x 490 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 490 x 490 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 5 l / min --> 300 l / h = 0.3 m³ / h

Test at 880Pa: loss 24 l / min --> 1440 l / h = 1.44 m³ / h