Product Data Sheet

Concealed fixing façade panel - PFA 1100/1000

PFA 1000 M (Microprofiled)

1000mm

PFA 1000 L (Smooth)

1000mm

PFA 1000 N (Ribbed)

1000mm

CE

This product meets the requirements of Regulation (EU) No 305/2011 of the European Parliament and of the Council laying down harmonized conditions for the marketing of construction products and complies with Annex ZA of Standard EN 14509:2013

Thickness: 40 - 50 - 60 - 80 - 100

Designation

PFA 1100/1000 Isothermal façade panel with concealed fixing.

Application:

Panel designed for exterior façade cladding with concealed fixing. Can be applied vertically or horizontally.
Its hidden fastening system protects the fasteners and gives it an aesthetically pleasing visual appearance.

Description:

It is made up of two profiled steel sheets interconnected by rigid polyurethane foam insulation (PUR B3, PUR B2) or polyisocyanurate (PIR), providing excellent mechanical behavior and the highest thermal insulation..

It is produced with a useful width of 1100 mm or 1000 mm only for the panel with a Microprofiled outer surface. The other profiles are produced with a usable width of 1000 mm.

It fits laterally with other panels to cover a surface. It is fixed with a self-tapping screw in the recess area.

Dimensions

Thickness:

40, 50, 60, 80 e 100 mm
A tolerance of +/- 2 mm

Useful width:

1100 mm e 1000 mm
A tolerance of +/- 2 mm

Length:

According to the customer's request and subject to the following limits:
Minimum: 4.000 mm*
Maximum:12.500 mm (Except on foam panels PIR)*
A tolerance of ± 10 mm
* On request for other sizes

Base materials:

Metal support:

- Rolled steel (EN 508; EN 10143), galvanized (EN 10346) and pre-painted (EN 10169)
Note: sheet thickness subject to consultation. For the Smooth faced panel, a minimum thickness of 0.6 mm is required.

Coating:

- *Standard*: 5 µm primer + polyester paint 20 µm
- For special applications: PVDF, HDX On request

Insulating core:

- Rigid polyurethane foam – PUR B3, no reaction to fire class
- Rigid polyurethane foam – PUR B2, with reaction to fire class of B s2 d0
- Rigid polyisocyanurate foam – PIR, with reaction to fire class of B s1 d0
- Average density: 40 kg/m³ ± 10%
- Thermal conductivity λ= 0.025 W/m.K
- Foam free of CFC's

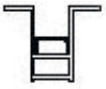
Mechanical characteristics:

Adhesion (tensile strength on support) > 0.018 MPa Compressive strength at 10% deformation > 0.100 MPa

Characteristics:

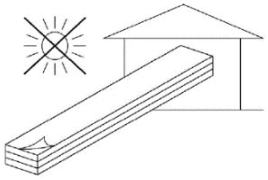
Nominal panel thickness (mm)	Thermal thermal (W/m^2K)	Panel weight (Kg/m^2)	Maximum flexion = 1/200L Uniformly distributed load							
			Kg/m^2							
			80	100	140	160	80	100	140	160
40	0.70	8.16	Maximum distance (cm)	310	290	250	230	360	330	290	270
50	0.57	8.56		360	330	300	280	420	390	340	320
60	0.48	8.96		410	380	340	320	480	440	390	360
80	0.33	9.76		490	450	400	370	570	520	460	430
100	0.26	10.56		570	530	460	430	660	600	530	500

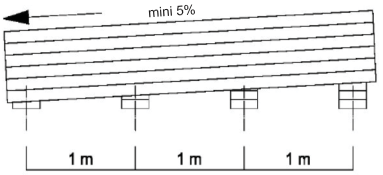
Recommended accessories:

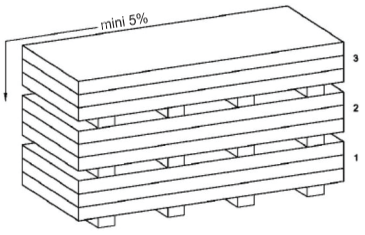
	AC.001 Intermediate profile 40mm		P.005 Initial support piece
	AC.002 Corner profile 40mm		AC.003 Initial profile 40mm

Other recommendations:

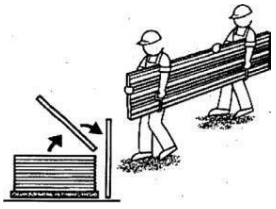
1. Storage:

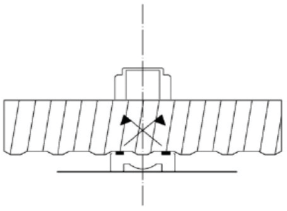


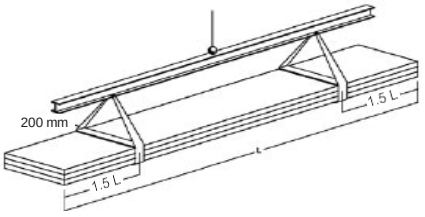


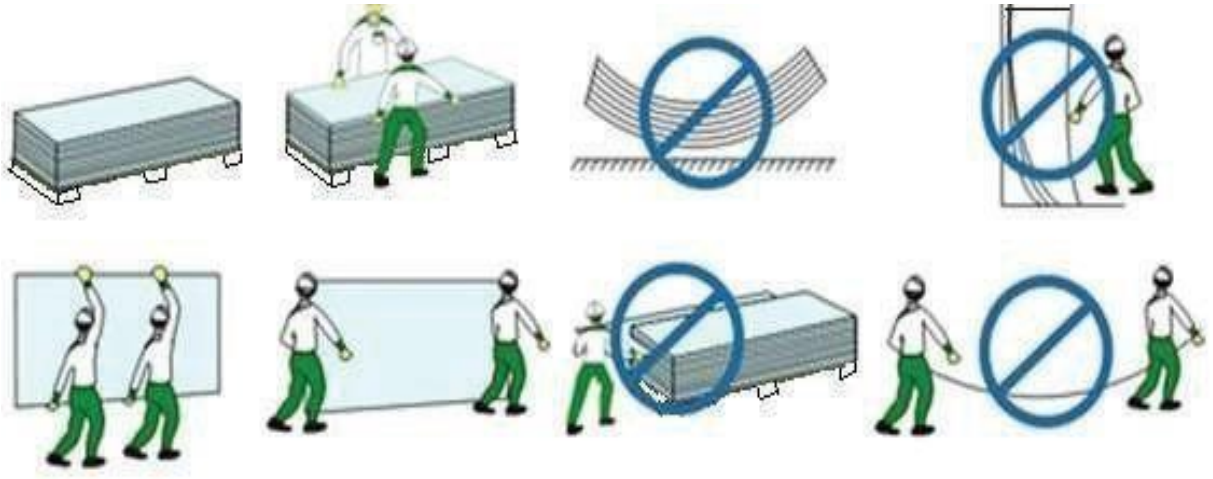


2. Panel application









3. Environmental recommendations

The isothermal panel is a product made up of two different materials: metal and polyurethane foam.
Due to the absence of really dangerous or toxic additives encapsulated in the polyurethane polymer, the foam is considered an inert material, presenting no risk to the environment.

At the end of the product's life, its components must be separated:

- The **sheet** metal should be sent as scrap with the respective code **LER 20 01 40**.
- The **polyurethane** should be disposed of as waste insulation material whose **Code LER 12 01 99**.
- The **packaging** used to pack the batch of panels is made up of plastic materials such as stretch film and styrofoam code **LER 15 01 02**.