

# ISOTHERMAL PANEL PANNEAU ISOTHERMIQUE

Sandwich Panel PUR.PIR

Panneau sandwich PUR.PIR



**Painel 2000**

Sociedade Industrial de Painéis, S.A.

[www.painel2000.com](http://www.painel2000.com)

# Roof panel with hidden joint/ Panneau de Couverture avec couvre-joint

## TJ3 1000



### Application:

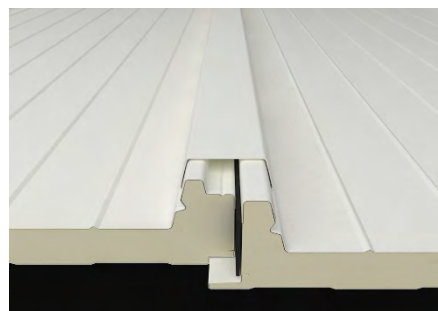
Roof panel hidden joint.

Revêtement de toiture avec joint.

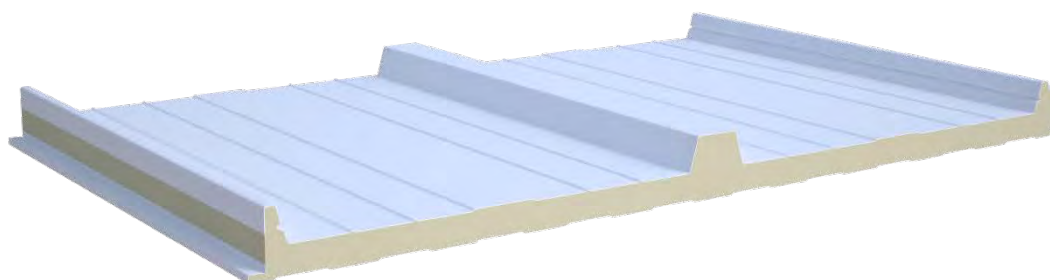
### Characteristics / Caractéristiques

Absolute guarantee of tightness and with a hidden joint fixing system.

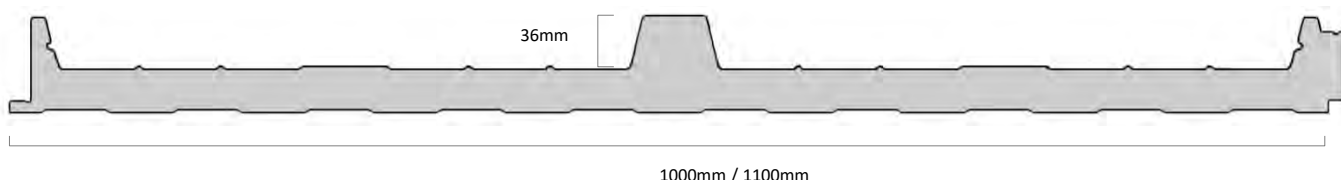
Garantie absolue de l'étanchéité et protection des éléments de fixation.



Detail of assembly  
Détail de montage



Design



| PROPERTIES / PROPRIÉTÉS                                                    |           |                         |                 |
|----------------------------------------------------------------------------|-----------|-------------------------|-----------------|
| TYPE                                                                       | RÉFÉRENCE | THICKNESS / ÉPAISSEUR   | WIDTH / LARGEUR |
| Roof panel 3 frets with flashing<br>Couverture 3 frettes avec couvre-joint | TJ3 1000  | 30, 40 ,50 , 60, 80,100 | 1000            |

| Épaisseur<br>nominal du<br>panneau<br>(mm) | Conductivité<br>thermique<br>(W/m²K) | Weight<br>(Kg/m²) | Kg/m²                 | Maximum deflection = 1/200L<br>Uniformly distributed load / Charge répartie uniformement |     |     |     |     |       |     |     |     |     |
|--------------------------------------------|--------------------------------------|-------------------|-----------------------|------------------------------------------------------------------------------------------|-----|-----|-----|-----|-------|-----|-----|-----|-----|
|                                            |                                      |                   |                       | ▲ ▲                                                                                      |     |     |     |     | ▲ ▲ ▲ |     |     |     |     |
|                                            |                                      |                   |                       | 80                                                                                       | 120 | 150 | 200 | 250 | 80    | 120 | 150 | 200 | 250 |
| 30                                         | 0,79                                 | 7,92              | Distance Maximum (cm) | 253                                                                                      | 210 | 189 | 165 | 148 | 338   | 281 | 253 | 221 | 198 |
| 40                                         | 0,60                                 | 8,30              |                       | 292                                                                                      | 243 | 219 | 191 | 172 | 390   | 325 | 292 | 255 | 229 |
| 50                                         | 0,48                                 | 8,68              |                       | 329                                                                                      | 274 | 247 | 215 | 194 | 440   | 366 | 330 | 288 | 259 |
| 60                                         | 0,41                                 | 9,06              |                       | 364                                                                                      | 303 | 273 | 238 | 214 | 486   | 405 | 365 | 319 | 286 |
| 80                                         | 0,31                                 | 9,82              |                       | 427                                                                                      | 356 | 321 | 280 | 252 | 570   | 475 | 429 | 374 | 337 |
| 100                                        | 0,25                                 | 10,58             |                       | 483                                                                                      | 403 | 363 | 318 | 286 | 645   | 538 | 486 | 425 | 382 |

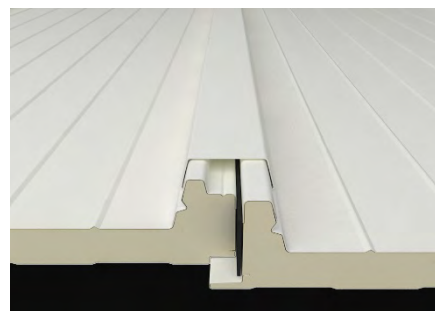


### Application:

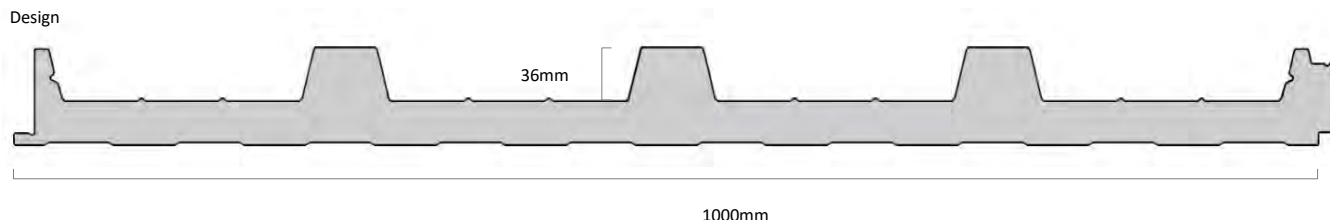
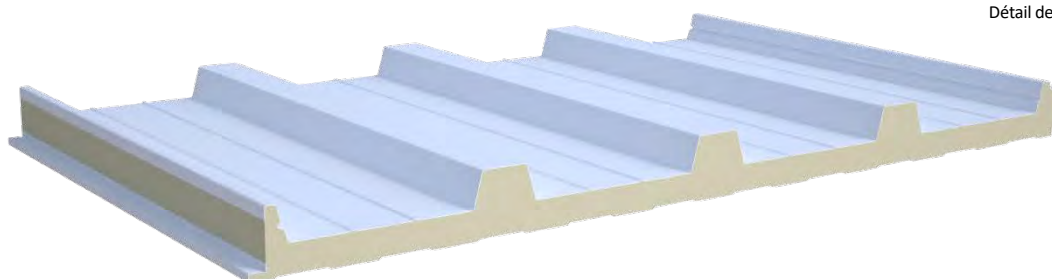
Roof panel with flasing  
Revêtement de toiture.

### Characteristics / Caractéristiques

Absolute guarantee of tightness and protection of fasteners.  
Garantie absolue de l'étanchéité et protection des éléments de fixation.



Detail of assembly  
Détail de montage



| PROPERTIES / PROPRIÉTÉS                                                    |           |                         |                 |
|----------------------------------------------------------------------------|-----------|-------------------------|-----------------|
| TYPE                                                                       | RÉFÉRENCE | THICKNESS / ÉPAISSEUR   | WIDTH / LARGEUR |
| Roof panel 5 frets with flashing<br>Couverture 5 frettes avec couvre-joint | TJ5 1000  | 30, 40, 50, 60, 80, 100 | 1000            |

| Épaisseur nominal du panneau (mm) | Conductivité thermique (W/m2K) | Weight (Kg/m²) | Kg/m²                 | Maximum deflection = 1/200L<br>Uniformly distributed load / Charge répartie uniformement |     |     |     |     |           |     |     |     |     |
|-----------------------------------|--------------------------------|----------------|-----------------------|------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----------|-----|-----|-----|-----|
|                                   |                                |                |                       | ▲ ▲ ▲ ▲ ▲                                                                                |     |     |     |     | ▲ ▲ ▲ ▲ ▲ |     |     |     |     |
|                                   |                                |                |                       | 80                                                                                       | 120 | 150 | 200 | 250 | 80        | 120 | 150 | 200 | 250 |
| 30                                | 0,75                           | 8,35           | Distance Maximum (cm) | 294                                                                                      | 245 | 221 | 193 | 173 | 394       | 327 | 295 | 257 | 231 |
| 40                                | 0,57                           | 8,73           |                       | 331                                                                                      | 275 | 248 | 216 | 194 | 442       | 368 | 331 | 289 | 260 |
| 50                                | 0,46                           | 9,11           |                       | 366                                                                                      | 304 | 274 | 239 | 215 | 488       | 406 | 366 | 320 | 287 |
| 60                                | 0,39                           | 9,49           |                       | 398                                                                                      | 332 | 299 | 261 | 235 | 532       | 443 | 400 | 349 | 314 |
| 80                                | 0,30                           | 10,25          |                       | 459                                                                                      | 382 | 345 | 301 | 271 | 613       | 511 | 461 | 403 | 362 |
| 100                               | 0,24                           | 11,01          |                       | 513                                                                                      | 428 | 386 | 338 | 304 | 686       | 572 | 516 | 451 | 406 |

# Roof panel 3 frets / Panneau de Couverture 3 frettes

PC3 1000

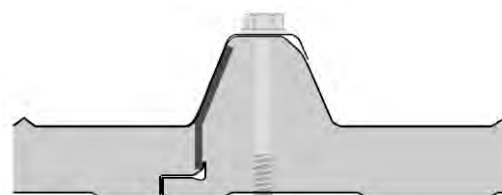
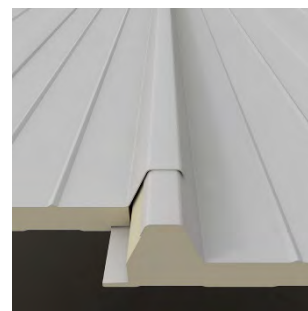


## Application:

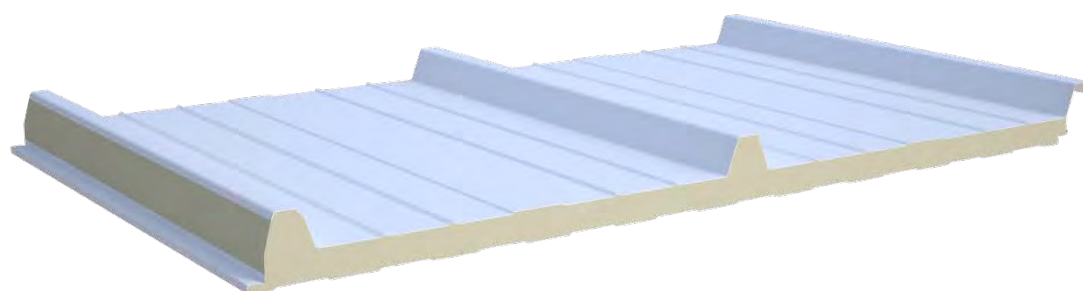
Roof panel.  
Revêtement de toiture.

## Characteristics / Caractéristiques

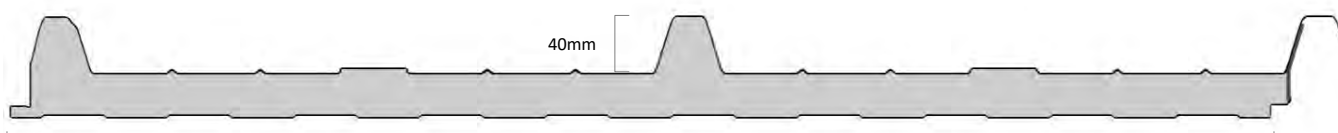
Easy application, high strength and affordable price.  
Application facile, haute résistance et économique.



Detail of assembly  
Détail de montage



Design



| PROPERTIES / PROPRIÉTÉS                    |           |                         |                 |
|--------------------------------------------|-----------|-------------------------|-----------------|
| TYPE                                       | RÉFÉRENCE | THICKNESS / ÉPAISSEUR   | WIDTH / LARGEUR |
| Roof panel 3 frets<br>Couverture 3 frettes | PC3 1000  | 30, 40 ,50 , 60, 80,100 | 1000            |

| Épaisseur<br>nominal du<br>panneau<br>(mm) | Conductivité<br>thermique<br>(W/m2K) | Weight<br>(Kg/m <sup>2</sup> ) | Kg/m <sup>2</sup>     | Maximum deflection = 1/200L<br>Uniformly distributed load / Charge répartie uniformement |     |     |     |     |       |     |     |     |     |
|--------------------------------------------|--------------------------------------|--------------------------------|-----------------------|------------------------------------------------------------------------------------------|-----|-----|-----|-----|-------|-----|-----|-----|-----|
|                                            |                                      |                                |                       | ▲ ▲                                                                                      |     |     |     |     | ▲ ▲ ▲ |     |     |     |     |
|                                            |                                      |                                |                       | 80                                                                                       | 120 | 150 | 200 | 250 | 80    | 120 | 150 | 200 | 250 |
| 30                                         | 0,79                                 | 7,88                           | Distance Maximum (cm) | 250                                                                                      | 208 | 187 | 164 | 147 | 335   | 278 | 250 | 219 | 196 |
| 40                                         | 0,60                                 | 8,26                           |                       | 289                                                                                      | 240 | 217 | 189 | 170 | 386   | 321 | 289 | 253 | 227 |
| 50                                         | 0,48                                 | 8,64                           |                       | 326                                                                                      | 271 | 244 | 213 | 192 | 435   | 362 | 326 | 285 | 256 |
| 60                                         | 0,41                                 | 9,02                           |                       | 360                                                                                      | 300 | 270 | 236 | 212 | 481   | 400 | 361 | 315 | 283 |
| 80                                         | 0,31                                 | 9,78                           |                       | 422                                                                                      | 352 | 318 | 277 | 249 | 564   | 470 | 424 | 371 | 333 |
| 100                                        | 0,25                                 | 10,54                          |                       | 478                                                                                      | 399 | 360 | 315 | 283 | 639   | 533 | 481 | 421 | 378 |



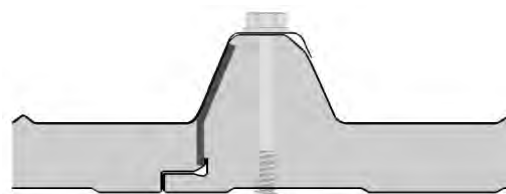
### Application:

Roof panel.  
Revêtement de toiture.

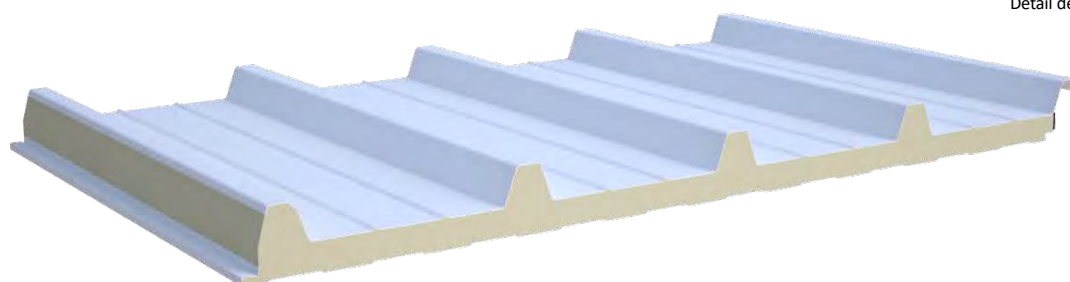
### Characteristics / Caractéristiques:

The higher mechanical resistance for large distance between supports. It promotes uniform distribution of water on the deck, preventing wind drift.

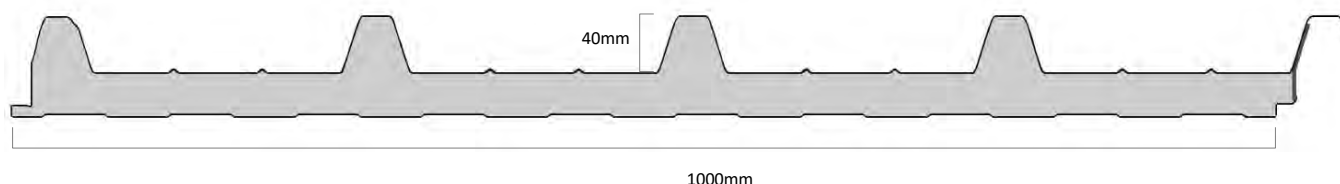
La résistance mécanique plus élevée pour une grande distance entre les supports. Favorise la distribution uniforme de l'eau sur le toit.



Detail of assembly  
Détail de montage



Design



| PROPERTIES / PROPRIÉTÉS                    |           |                          |                 |
|--------------------------------------------|-----------|--------------------------|-----------------|
| TYPE                                       | RÉFÉRENCE | THICKNESS / ÉPAISSEUR    | WIDTH / LARGEUR |
| Roof panel 5 frets<br>Couverture 5 frettes | PC5 1000  | 30, 40 ,50 , 60, 80, 100 | 1000            |

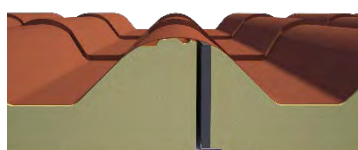
| Épaisseur nominal du panneau (mm) | Conductivité thermique (W/m2K) | Weight Poids (Kg/m²) | Kg/m²                 | Maximum deflection = 1/200L                               |     |     |     |     |           |     |     |     |     |
|-----------------------------------|--------------------------------|----------------------|-----------------------|-----------------------------------------------------------|-----|-----|-----|-----|-----------|-----|-----|-----|-----|
|                                   |                                |                      |                       | Uniformly distributed load / Charge répartie uniformement |     |     |     |     |           |     |     |     |     |
|                                   |                                |                      |                       | ▲ ▲ ▲ ▲ ▲                                                 |     |     |     |     | ▲ ▲ ▲ ▲ ▲ |     |     |     |     |
|                                   |                                |                      |                       | 80                                                        | 120 | 150 | 200 | 250 | 80        | 120 | 150 | 200 | 250 |
| 30                                | 0,75                           | 8,27                 | Distance Maximum (cm) | 285                                                       | 237 | 213 | 186 | 167 | 381       | 317 | 285 | 249 | 224 |
| 40                                | 0,57                           | 8,65                 |                       | 321                                                       | 267 | 241 | 210 | 189 | 429       | 357 | 322 | 281 | 252 |
| 50                                | 0,46                           | 9,03                 |                       | 356                                                       | 296 | 267 | 233 | 210 | 476       | 396 | 357 | 312 | 280 |
| 60                                | 0,39                           | 9,41                 |                       | 389                                                       | 324 | 292 | 255 | 229 | 520       | 433 | 390 | 341 | 306 |
| 80                                | 0,30                           | 10,17                |                       | 450                                                       | 375 | 338 | 296 | 266 | 601       | 501 | 452 | 395 | 355 |
| 100                               | 0,24                           | 10,93                |                       | 505                                                       | 421 | 380 | 332 | 299 | 674       | 563 | 508 | 444 | 399 |



### TILE ROOF PANEL PANNEAU TUILE DE COUVERTURE

10%

Minimum Slope  
Pente Minimum

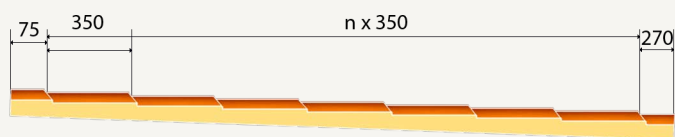


100% WATERTIGHT  
100% ÉTANCHE

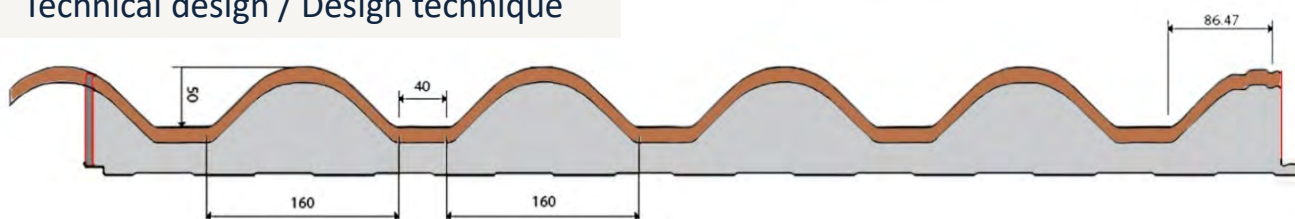
### Standard Measures - Mesures Standard

| Mesures<br>(mm) | n° tiles<br>n° tuiles | 8050  | 23 |
|-----------------|-----------------------|-------|----|
|                 |                       | 8400  | 24 |
|                 |                       | 8750  | 25 |
|                 |                       | 9100  | 26 |
| 2800            | 8                     | 9450  | 27 |
|                 |                       | 9800  | 28 |
| 3150            | 9                     | 10150 | 29 |
|                 |                       | 10500 | 30 |
| 3500            | 10                    | 10850 | 31 |
|                 |                       | 11200 | 32 |
| 3850            | 11                    | 11550 | 33 |
|                 |                       | 11900 | 34 |
| 4200            | 12                    | 12250 | 35 |
|                 |                       | 12600 | 36 |
| 4550            | 13                    | 12950 | 37 |
|                 |                       | 13300 | 38 |
| 4900            | 14                    | 13650 | 39 |
|                 |                       | 14000 | 40 |
| 5250            | 15                    |       |    |
|                 |                       |       |    |
| 5600            | 16                    |       |    |
|                 |                       |       |    |
| 5950            | 17                    |       |    |
|                 |                       |       |    |
| 6300            | 18                    |       |    |
|                 |                       |       |    |
| 6650            | 19                    |       |    |
|                 |                       |       |    |
| 7000            | 20                    |       |    |
|                 |                       |       |    |
| 7350            | 21                    |       |    |
|                 |                       |       |    |
| 7700            | 22                    |       |    |
|                 |                       |       |    |

Length / Longueur  
2800mm a 14000mm\*

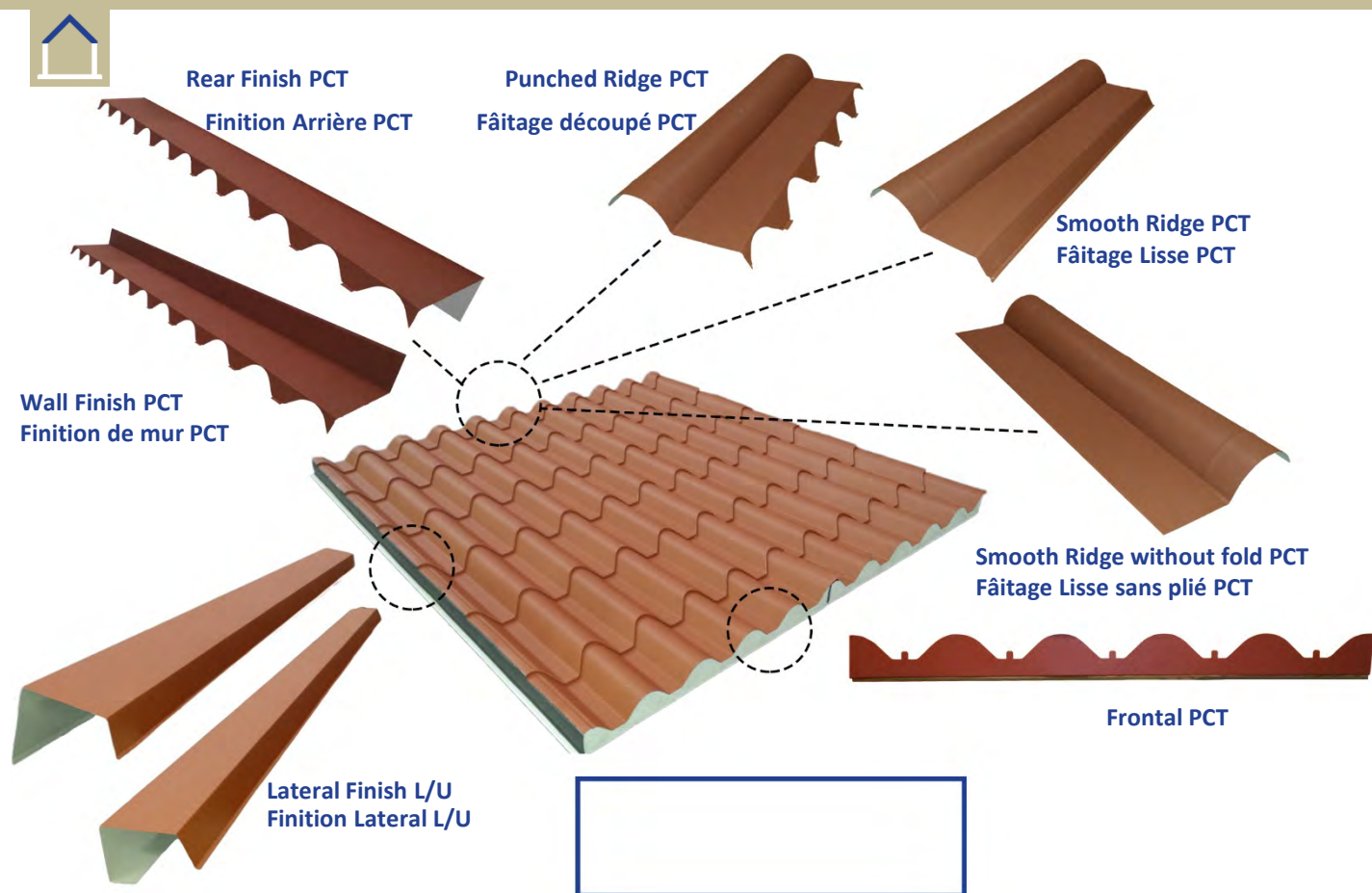


### Technical design / Design technique



\*Other measures upon request / Autres mesures sur demande

## PCT 1000



## Technical data/ Données techniques

### PCT 1000

- Thermal Insulation Table/ Tableau de Isolation Thermique

| Average thickness of the panel<br>Épaisseur moyenne du panneau<br>(mm) | Transmittance / Transmission<br>U (W/m <sup>2</sup> K) | Thermal conductivity coefficient<br>Coefficiente de conductivité thermique<br>K (W/ m <sup>2</sup> K) |
|------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 46                                                                     | 0,58                                                   | 0,48                                                                                                  |
| 56                                                                     | 0,43                                                   | 0,37                                                                                                  |
| 76                                                                     | 0,30                                                   | 0,27                                                                                                  |

- Table of permissible loads / Tableau des charges admissibles

| Épaisseur<br>nominal du<br>panneau<br>(mm) | Weight<br>Poids<br>(Kg/m <sup>2</sup> ) | Kg/m <sup>2</sup>       | Maximum deflection = 1/200L                               |     |     |     |     |                    |     |     |     |     |
|--------------------------------------------|-----------------------------------------|-------------------------|-----------------------------------------------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
|                                            |                                         |                         | Uniformly distributed load / Charge répartie uniformement |     |     |     |     |                    |     |     |     |     |
|                                            |                                         |                         | 80 120 150 200 250                                        |     |     |     |     | 80 120 150 200 250 |     |     |     |     |
| 30                                         | 10,00                                   | Distance<br>maximum(cm) | 294                                                       | 245 | 221 | 193 | 173 | 394                | 327 | 295 | 257 | 231 |
| 40                                         | 10,40                                   |                         | 331                                                       | 275 | 248 | 216 | 194 | 442                | 368 | 331 | 289 | 260 |
| 60                                         | 11,20                                   |                         | 366                                                       | 304 | 274 | 239 | 215 | 488                | 406 | 366 | 320 | 287 |

# Wall panel / Panneau de Bardage

## PW 1000



### Application:

For application on walls / partitions, façades, prefabricated cold storage. It can be used vertically and horizontally.

Pour parois de séparation, façades, préfabriqués et stockage de froid. Les panneaux sont conçus pour une installation verticalement et horizontalement.

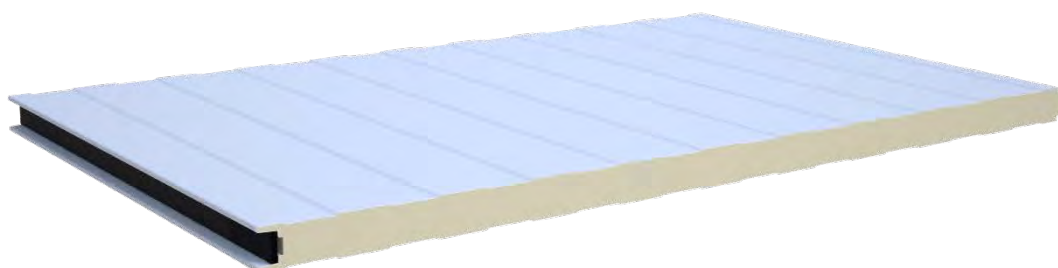
### Characteristics / Caractéristiques:

It is characterized by the symmetry of the section and the simplicity of the male / female socket.

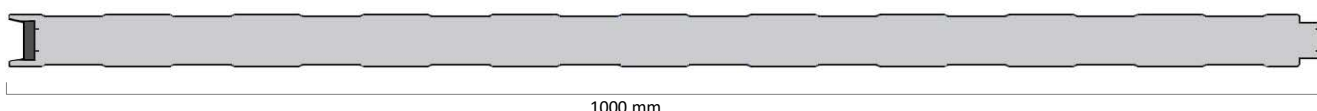
Il est caractérisé par une symétrie de section et simplicité d'emboîtement avec male / femelle.



Detail of assembly  
Détail de montage



Design



| PROPERTIES / PROPRIÉTÉS          |           |                          |                 |
|----------------------------------|-----------|--------------------------|-----------------|
| TYPE                             | RÉFÉRENCE | THICKNESS / ÉPAISSEUR    | WIDTH / LARGEUR |
| Wall Panel<br>Panneau de Bardage | PW 1000   | 30, 40 ,50 , 60, 80, 100 | 1000            |

| Épaisseur<br>nominal du<br>panneau<br>(mm) | Conductivité<br>thermique<br>(W/m2K) | Weight<br>Poids<br>(Kg/m <sup>2</sup> ) | Kg/m <sup>2</sup>     | Maximum deflection= 1/200L                                |     |     |     |     |     |       |     |     |     |     |     |
|--------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------|-----------------------------------------------------------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
|                                            |                                      |                                         |                       | Uniformly distributed load / Charge répartie uniformement |     |     |     |     |     |       |     |     |     |     |     |
|                                            |                                      |                                         |                       | ▲ ▲                                                       |     |     |     |     |     | ▲ ▲ ▲ |     |     |     |     |     |
|                                            |                                      |                                         |                       | 60                                                        | 80  | 100 | 120 | 140 | 160 | 60    | 80  | 100 | 120 | 140 | 160 |
| 30                                         | 0,86                                 | 7,46                                    | Distance Maximum (cm) | 290                                                       | 260 | 240 | 220 | 210 | 190 | 320   | 300 | 270 | 260 | 240 | 230 |
| 40                                         | 0,67                                 | 7,84                                    |                       | 350                                                       | 310 | 290 | 270 | 250 | 230 | 390   | 360 | 330 | 310 | 290 | 280 |
| 50                                         | 0,51                                 | 8,22                                    |                       | 400                                                       | 360 | 340 | 310 | 300 | 280 | 460   | 420 | 390 | 360 | 340 | 330 |
| 60                                         | 0,43                                 | 8,60                                    |                       | 450                                                       | 410 | 380 | 350 | 340 | 320 | 520   | 470 | 440 | 410 | 380 | 370 |
| 80                                         | 0,32                                 | 9,36                                    |                       | 550                                                       | 490 | 450 | 420 | 390 | 370 | 620   | 570 | 520 | 490 | 460 | 440 |
| 100                                        | 0,25                                 | 10,12                                   |                       | 640                                                       | 570 | 530 | 490 | 460 | 430 | 720   | 660 | 600 | 560 | 530 | 510 |

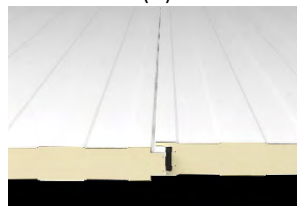


### Finishes / Finitions PW 1000

Micro-ribbed finishing

Finition Nervuré

(N)

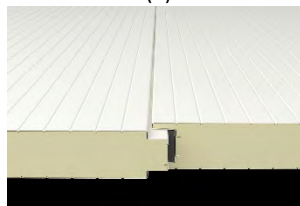


PW 1000  
Detail of assembly  
Détail de montage

Groove finishing

Finition Strié

(E)

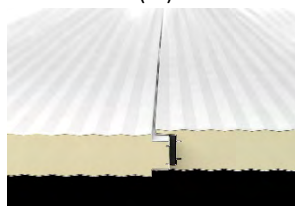


PW 1000 E  
Detail of assembly  
Détail de montage

Micro-diamond finishing

Finition Micro-profilé

(M)

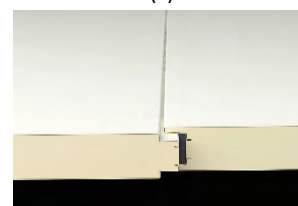


PW 1000 M  
Detail of assembly  
Détail de montage

Smooth finishing

Finition Lisse

(L)



PW 1000 L  
Detail of assembly  
Détail de montage

Design PW 1000 N



1000 mm \*

Design PW 1000 E



1000 mm \*

Design PW 1000 M



1000 mm \*

Design PW 1000 L



1000 mm \*

# Façade panel / Panneau de Bardage avec fixation occulte

PFA 1000 / L / LJ / M / MJ / N



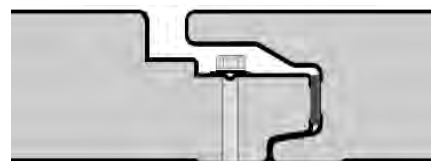
## Application:

Panel for external façades with hidden fixing. It could be installed vertically or horizontally.

Panneau de bardage avec fixation occulte . Les panneaux sont conçus pour une installation verticalement et horizontalement.

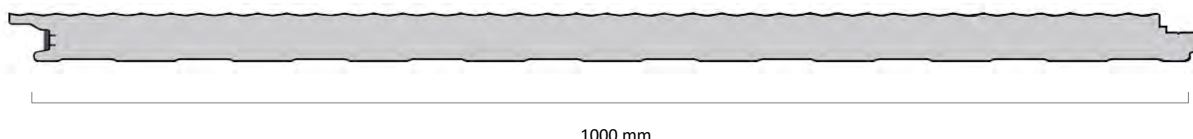


Closed joint Design / Schéma joint Fermé

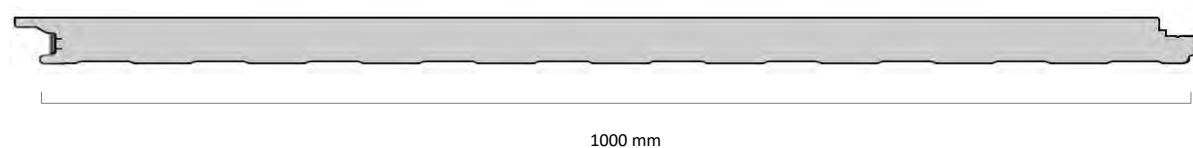


Open joint Design / Schéma joint Ouvert

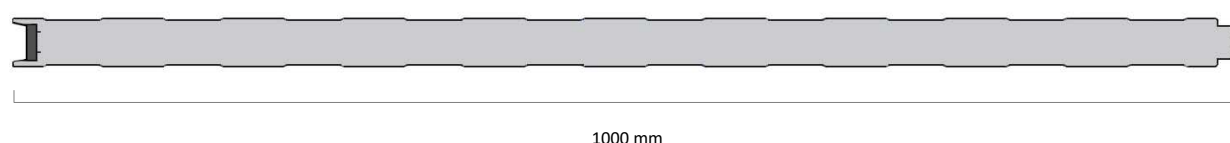
Design PFA 1000 M



Design PFA 1000 L



Design PFA 1000 N



| PROPERTIES / PROPRIÉTÉS                             |           |                       |                 |
|-----------------------------------------------------|-----------|-----------------------|-----------------|
| TYPE                                                | RÉFÉRENCE | THICKNESS / ÉPAISSEUR | WIDTH / LARGEUR |
| Facade Panel<br>Panneau de Bardage fixation occulte | PFA 1000  | 40 ,50 , 60, 80, 100  | 1000            |

| Épaisseur<br>nominal du<br>panneau<br>(mm) | Conductivité<br>thermique<br>(W/m2K) | Weight<br>Poids<br>(Kg/m <sup>2</sup> ) | Kg/m <sup>2</sup> | Maximum deflection = 1/200L                               |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------------------------|--------------------------------------|-----------------------------------------|-------------------|-----------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                            |                                      |                                         |                   | Uniformly distributed load / Charge repartie uniformement |     |     |     |     |     |     |     |     |     |     |     |
|                                            |                                      |                                         |                   | ▲                                                         |     |     |     |     |     | ▲   |     |     |     |     |     |
| Distance Maximum (cm)                      |                                      |                                         |                   | 60                                                        | 80  | 100 | 120 | 140 | 160 | 60  | 80  | 100 | 120 | 140 | 160 |
| 40                                         | 0,70                                 | 8,16                                    |                   | 350                                                       | 310 | 290 | 270 | 250 | 230 | 400 | 360 | 330 | 310 | 290 | 270 |
| 50                                         | 0,57                                 | 8,56                                    |                   | 400                                                       | 360 | 330 | 310 | 300 | 280 | 460 | 420 | 390 | 360 | 340 | 320 |
| 60                                         | 0,48                                 | 8,96                                    |                   | 460                                                       | 410 | 380 | 350 | 340 | 320 | 530 | 480 | 440 | 340 | 390 | 360 |
| 80                                         | 0,33                                 | 9,76                                    |                   | 550                                                       | 490 | 450 | 420 | 400 | 370 | 620 | 570 | 520 | 490 | 460 | 430 |
| 100                                        | 0,26                                 | 10,56                                   |                   | 640                                                       | 5,0 | 530 | 490 | 460 | 430 | 710 | 660 | 600 | 570 | 530 | 500 |



### NEW:

The new socket joint for architectural panel PFA 1000 and panel PFA 600 are identical.  
It allows both panels could be assembled together.  
By this way is obtained a new architectural appearance.

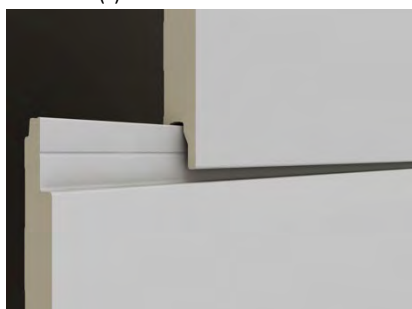
### NOUVEAUTÉ:

Les panneaux PFA 1000 et PFA 600 sont de facile emboîtement.  
Peuvent être fabriqué avec joint ouvert ou fermé.  
Les joints sont identiques. Peuvent ainsi être montés ensemble, ayant un nouvel aspect architectonique.



Joint assembly  
Montage ensemble  
PF 600 L + PFA 1000 L

Smooth finishing  
Finition lisse  
(L)



Micro-diamond finishing  
Finition Micro-profilé  
(M)



# Arquitectural panel / Panneau architectural

PF 600 L / LJ / M / MJ / MO



## Application:

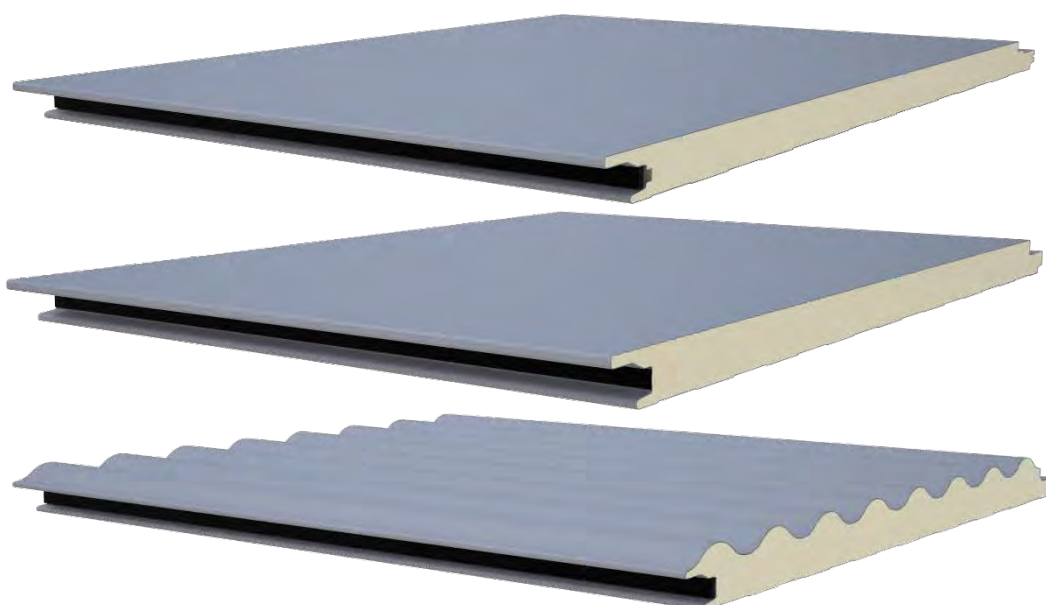
Panel for arquitectural façade. Can be applied vertically or horizontally.

Panneau pour façades architectural. Les panneaux sont conçus pour une installation verticalement et horizontalement.

## Characteristics / Caractéristiques:

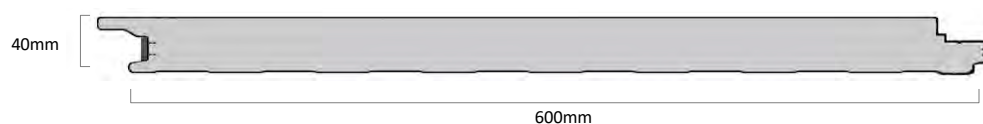
Exterior cladding of buildings framed in architectural trends. Modulation 600mm with and without separation.

Revêtement extérieur de bâtiments modernes et architectoniques. Modulation de 600mm avec ou sans joint de séparation.



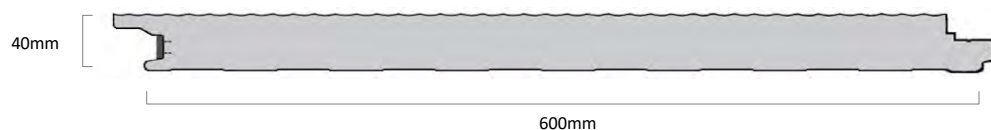
Smooth finishing / Finition Lisse (L)

PF 600 L



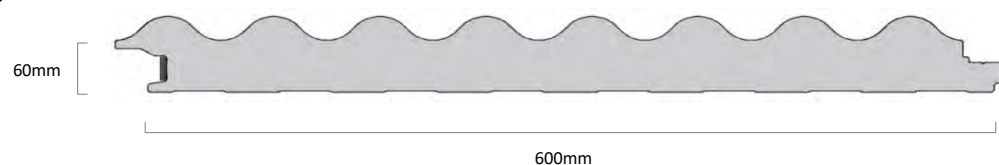
Micro-diamond finishing / Finition Micro-profilé (M)

PF 600 M



Mini wave finishing / Finition Minionde (MO)

PF 600 MO

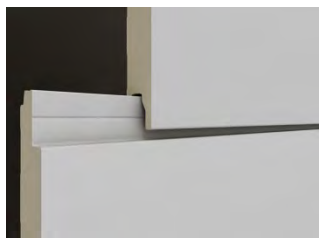


# Arquitectural panel / Panneau architectural

## PF 600 L / LJ / M / MJ / MO



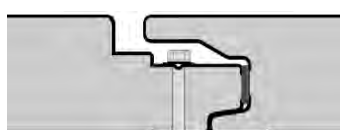
Smooth Finishing (L)  
Finition Lisse (L)



Micro-diamond Finishing (M)  
Finition Micro-profilé (M)

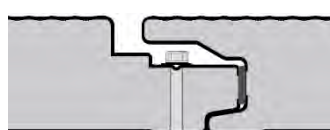


Mini wave Finishing (MO)  
Finition Mini onde (MO)



PF 600-40/50 LJ / MJ  
Open joint  
Joint ouvert

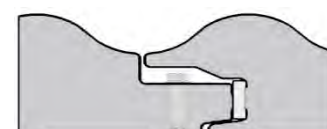
Detail of assembly  
Détail de montage



Detail of assembly  
Détail de montage



PF 600-40/50 L / M  
Closed joint  
Joint fermé

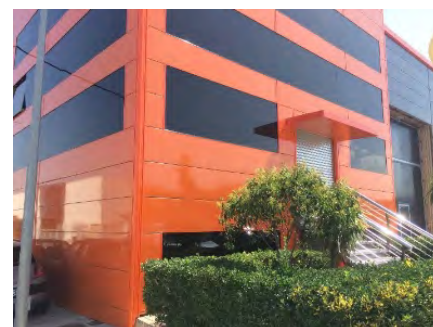


Detail of assembly  
Détail de montage

PF 600-60 MO

Profiles available in aluminium for assembly, windows, etc.

Profils disponibles en aluminium pour assemblage, fenêtres, etc



| PROPERTIES / PROPRIÉTÉS                      |                     |                       |                 |
|----------------------------------------------|---------------------|-----------------------|-----------------|
| TYPE                                         | RÉFÉRENCE           | THICKNESS / ÉPAISSEUR | WIDTH / LARGEUR |
| Arquitectural panel<br>Panneau architectural | PF 600 L, LJ, M, MJ | 40, 50                | 600             |
|                                              | PF 600 MO           | 60                    |                 |

| Weight / Poids<br>(Kg/m²) | Épaisseur nominal du panneau (mm) |       |      |
|---------------------------|-----------------------------------|-------|------|
|                           | 40                                | 50    | 60   |
| PF 600 L, LJ              | 11,00                             | 11,48 | -    |
| PF 600 M, MJ              | 9,23                              | 9,65  | -    |
| PF 600 MO                 | -                                 | -     | 9,70 |

| Conductivité<br>thermique<br>(W/m²K) | Épaisseur nominal du panneau (mm) |      |      |
|--------------------------------------|-----------------------------------|------|------|
|                                      | 40                                | 50   | 60   |
|                                      | 0,82                              | 0,66 | 0,68 |

| Maximum deflection = 1/200L<br>Uniformly distributed load / Charge répartie uniformement |                                         |                          |                                                                                       |     |     |     |     |
|------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------|---------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Reference                                                                                | Épaisseur<br>nominal du<br>panneau (mm) | Kg/m²                    |  |     |     |     |     |
|                                                                                          |                                         |                          | 40                                                                                    | 60  | 80  | 100 | 120 |
| PF 600 L                                                                                 | 40                                      | Distance maximum<br>(cm) | 374                                                                                   | 327 | 297 | 276 | 260 |
|                                                                                          | 50                                      |                          | 437                                                                                   | 383 | 347 | 322 | 303 |
| PF 600 M                                                                                 | 40                                      |                          | 362                                                                                   | 317 | 288 | 267 | 251 |
|                                                                                          | 50                                      |                          | 423                                                                                   | 370 | 336 | 312 | 294 |
| PF 600 MO                                                                                | 60                                      |                          | 442                                                                                   | 386 | 351 | 353 | 307 |

# Wave panel / Panneau ondulé

PO 1000



## Application:

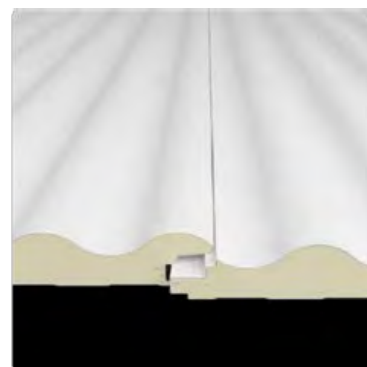
Wave Panel for external façades. It could be installed vertically or horizontally

Panneau ondulé pour revêtement de façades extérieures. Les panneaux sont conçus pour une installation verticalement et horizontalement.

## Characteristics / Caractéristiques:

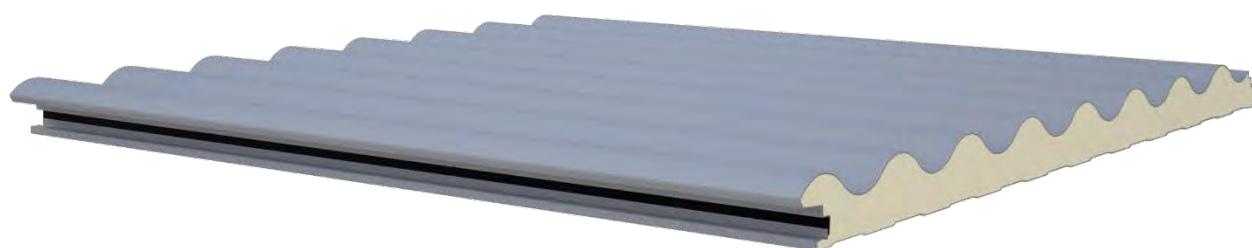
The undulated surface design presents an innovative solution for architectural façades.

Le design ondulé de la face extérieur est une solution innovante pour façades modernes et architectoniques .

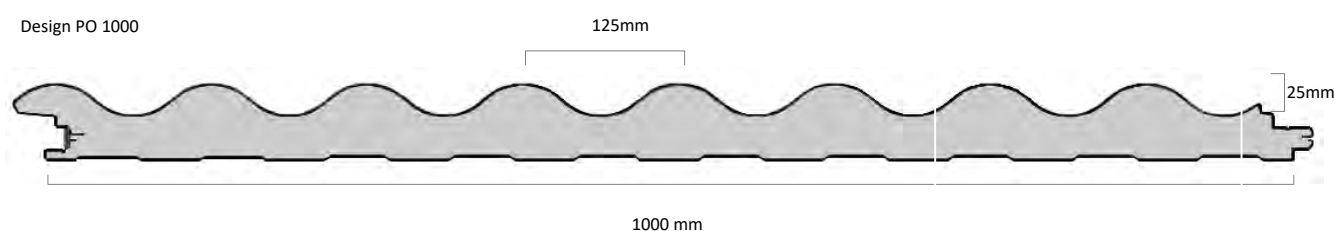


Detail of assembly

Détail de montage



Design PO 1000



| PROPERTIES / PROPRIÉTÉS            |           |                       |                 |
|------------------------------------|-----------|-----------------------|-----------------|
| TYPE                               | RÉFÉRENCE | THICKNESS / ÉPAISSEUR | WIDTH / LARGEUR |
| Corrugated Panel<br>Panneau ondulé | PO 1000   | 60, 100*              | 1000            |

| Épaisseur nominal du panneau (mm) | Conductivité thermique (W/m2K) | Weight Poids (Kg/m²) |                      | Maximum deflection = 1/200L                                                         |     |     |     |     |     |                                                                                       |     |     |     |     |     |
|-----------------------------------|--------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|---------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|
|                                   |                                |                      |                      | Uniformly distributed load / Charge répartie uniformement                           |     |     |     |     |     |                                                                                       |     |     |     |     |     |
|                                   |                                |                      |                      |  |     |     |     |     |     |  |     |     |     |     |     |
|                                   |                                |                      | Kg/m²                | 60                                                                                  | 80  | 100 | 120 | 140 | 160 | 60                                                                                    | 80  | 100 | 120 | 140 | 160 |
| 60                                | 0,55                           | 8,79                 | Distance maximum(cm) | 460                                                                                 | 410 | 380 | 350 | 340 | 310 | 530                                                                                   | 480 | 440 | 410 | 390 | 360 |
| 100                               | 0,29                           | 10,39                |                      | 640                                                                                 | 570 | 530 | 490 | 460 | 430 | 730                                                                                   | 660 | 600 | 570 | 540 | 500 |

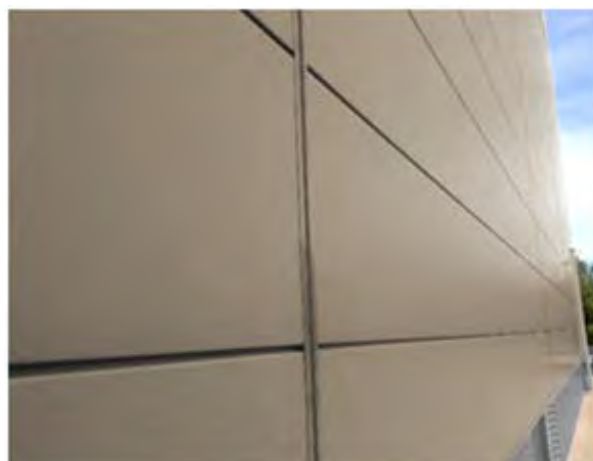
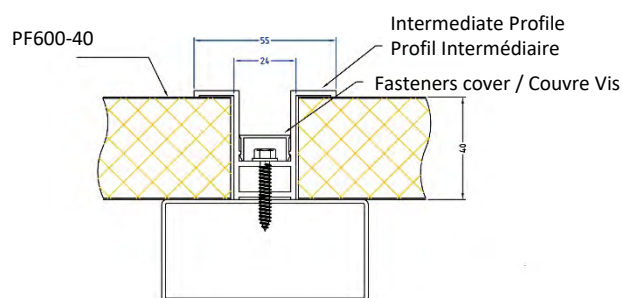
## Aluminium profiles for façade panel / Profils d'aluminium pour panneau de bardage



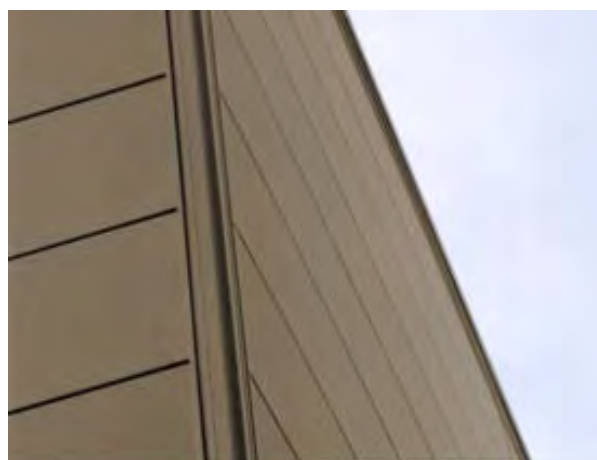
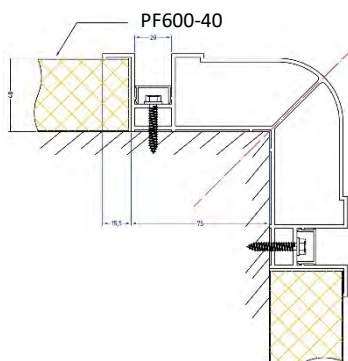
Aluminium profiles, ideal for installation with PFA 1000, PF 600, PO 1000 panel, in architectural facades.

Profils d'aluminium, idéal pour installation de panneau PFA 1000, PF 600 et MO 1000, en façades architectoniques.

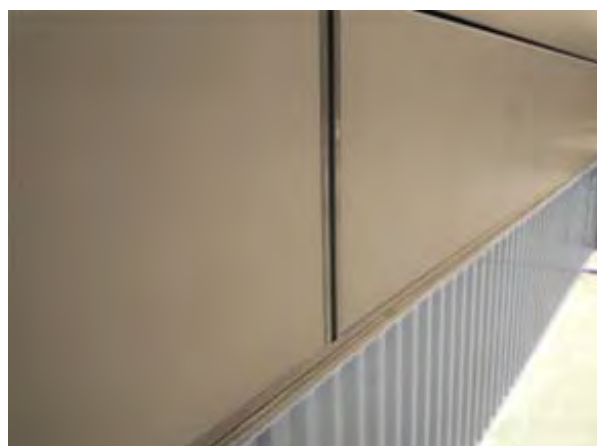
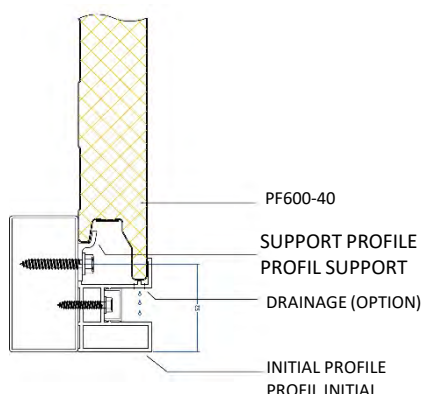
### AC.001 - Intermediate Profile / Profil intermédiaire 40 mm



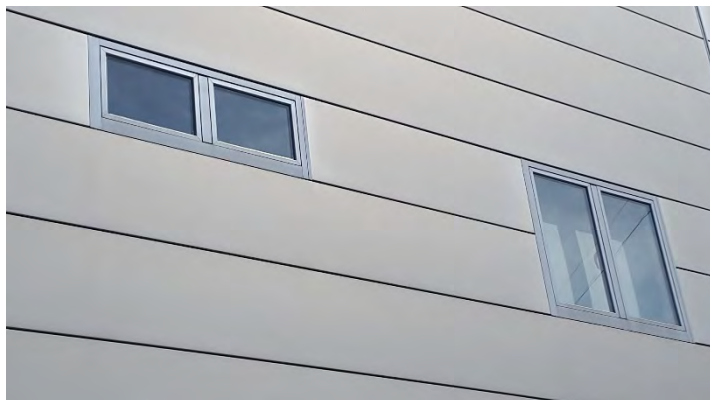
### AC.002 - Corner profile / Profil de coin 40 mm



### AC.003 - Initial profile / Profil initial 40 mm

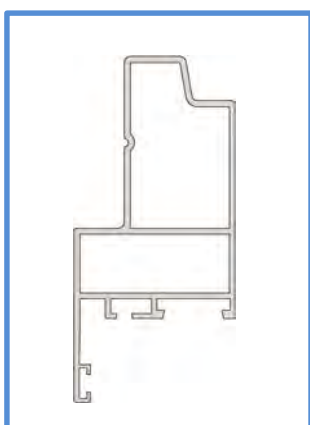


## Profiles for façade panel PFA 1000 and PF 600/ Profils pour panneau de bardage PFA 100 et PF 600

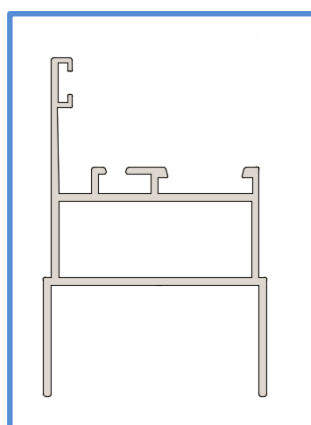


Aluminium profiles for windows built into the panels PFA 1000 and PF 600.

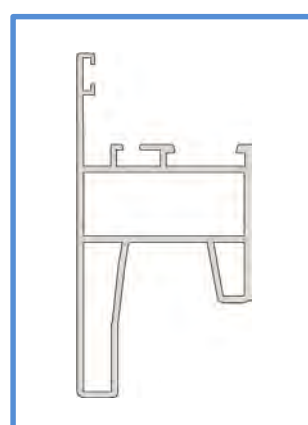
Profils d'aluminium pour fenêtres intégrées sur les panneaux PFA 1000 et PF 600.



PAE 3016



PAE 3014

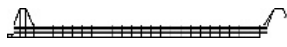
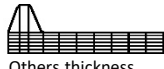
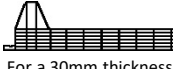


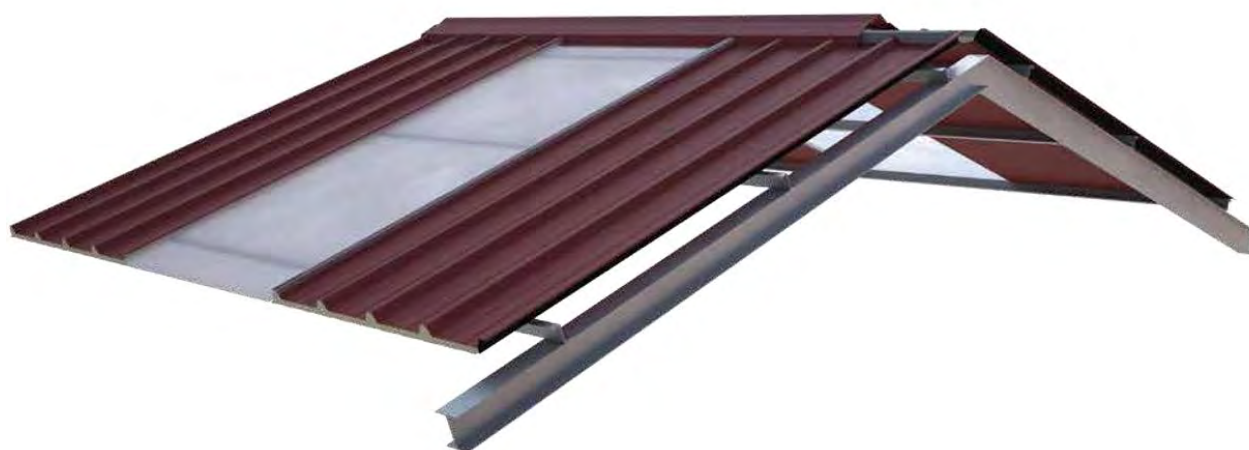
PAE 3015



Accessories and extras for installation into roofing panels, translucent polycarbonates fully integrated in every type of roofing panel as well.

Accessoires et compléments pour l'installation sur des panneaux de couverture et polycarbonates translucides complètement intégrés pour tous les types de panneaux.

| Accessories and Translucent / Accessoires et Translucides                           |                                                                                            |                                                                                                                             |                                                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|    | Polycarbonate panel for PC3 1000 and PC5 1000<br>Polycarbonate pour PC3 1000 et PC5 1000   | <br>Others thickness<br>Autres épaisseurs | <br>For a 30mm thickness<br>Pour épaisseurs de 30mm |
|    | Polycarbonate panel for TJ3 1000 and TJ5 1000.<br>Polycarbonate pour TJ3 1000 et TJ5 1000. |                                           | Watertight joint.<br>Joint étanche                                                                                                     |
|    | Polycarbonate panel 1000<br>Polycarbonate 1000                                             |                                           | Frontal                                                                                                                                |
|  | Cover - joint for polycarbonate<br>Couvre - joint pour polycarbonate                       |                                         | Fixed skylight<br>Lucarne fixe                                                                                                         |
|  | Cover - joint for polycarbonate<br>Couvre - joint pour polycarbonate                       |                                          | Automatic skylight<br>Lucarne automatique                                                                                              |
|  | Punched ridge<br>Fâitage découpé                                                           |                                         | Skylight with opening<br>Lucarne avec ouverture                                                                                        |



## Socket:

All Painel 2000 panels are defined so that once mounted and embedded under the specific design of each panel there is complete sealing and functionality, so it is recommended mounting the panels according to the design shown in this catalog.

## Protector Film:

The protective film should be removed from each panel installed at the time of mounting the next panel.

## Degree of slope:

It should be taken into account, when setting the degree of slope, the climate zone and the risk of snow, the length of the skirt of the roof and the existence of overlaps in the panels. In any case it is advisable at least slope, in the best conditions, 7%.

## Fixing:

The panels must be installed with the opposite direction to the prevailing winds. Keep in mind the needs of fixing panels depends on the weather situation of the location. In any case at least one screw / m<sup>2</sup> is recommended.

## Choice of coating steel (zinc or paint):

Painel 2000 supplied panels meet European standards. In any case it has to be taken into account, when choosing the coating of steel (zinc and paint), the conditions under which the work are (proximity to the sea, harsh industrial environments, etc).

## Ajustement:

Chaque panneau du Painel 2000 est conçu pour avoir l'étanchéité et la fonctionnalité appropriées après l'installation selon spécifications des panneaux.

## Film protecteur:

Le film protecteur doit être retiré de chaque panneau installé lors du montage du panneau suivant.

## inclination:

Par rapport à l'inclination il faut considérer le climat et le risque d'accumulation de neige, la longueur de la pente et la présence de fonctions des panneaux. Dans tous les cas, l'inclination recommandée est de 7%.

## Montage:

La direction d'installation des panneaux doit être contraire à la direction prédominante du vent. Il faudra prendre en considération le climat de l'emplacement pour déterminer la nécessité de fixation. Dans tous les cas, on recommande 1 vis par mètre carré.

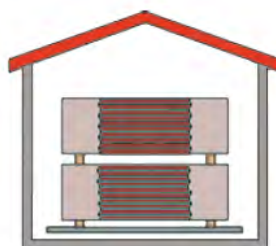
## Choix du style de finition d'acier (zinc ou peinture):

Painel 2000 fournit les panneaux conformement à la réglementation européenne. Dans tous les cas, il faut prendre en considération, au moment de choisir la finition de l'acier, les conditions climatiques de l'emplacement du bâtiment (proximité à la mer, pollution industriel, etc.)

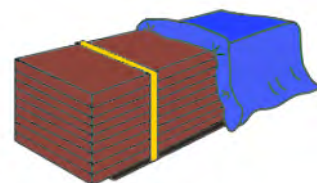
## Storage /Stockage:



Keep minimum inclination  
Maintenir l'inclinaison minimum

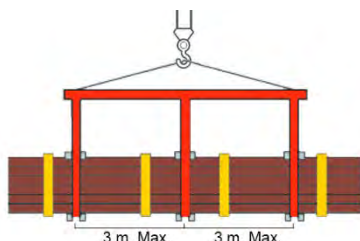


Store in covered places  
Stocker dans endroit couvert

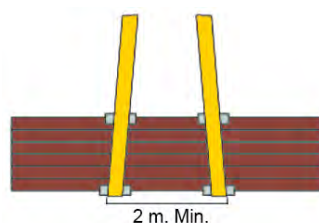


Cover outside  
Couvrir a l'extérieur

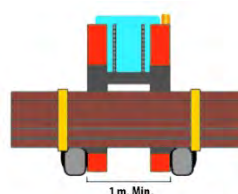
## Handling and Transportation/ Transport et Manipulation:



Unload with balancer  
Décharger avec balançoire



Respect the lifting points.  
Respecter les points d'élévation



## Insulating Core / Noyau isolant:

Rigid polyurethane foam - PUR,  
Rigid polyisocyanurate foam - PIR  
Thermal conductivity  $\lambda = 0.020$  W/mK  
Density =  $40 \text{ kg/m}^3 \pm 10\%$   
Foam free of CDC's

### Mechanical properties :

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

Mousse rigide de Polyuréthane - PUR  
Mousse rigide de Polyisocyanurate - PIR  
Conductivité thermique  $\lambda = 0.020$  W/mK  
Densité =  $40 \text{ kg/m}^3 \pm 10\%$   
Mousse libéré de CDC's

### Propriétés mécaniques :

Adhérence (Résistance à la traction à l'appui) > 0.018 Mpa  
Résistance à la compression à 10% de déformation > 0.100 MPa

## Metallic support:

- Hot-dip (min. S220GD; EN 508), galvanized (EN 10346) coated steel (EN 10143).

- Rolled aluminium alloy, pre-treated and coated aluminium rolled alloy (consultation).

- Acier laminé (minimum S220GD; EN 508) galvanisé (EN 10346) et pré-laqué (EN 10143).

- Aluminium laminé, pré-traité et laqué (Sur demande).



| COLOURS<br>COULEURS     | RAL 9010 | RAL 9006 | RAL 9007 | RAL 9004 | RAL 3009 | RAL 1015 | RAL 5019 | RAL 6005 | RAL 6009 | RAL 7012 | RAL 7022 | RAL 7038 | RAL 8004 | RAL 1018 | RAL 3000 | White / Blanc Pyrenees | RAL 9011 | Old tile / Vieille tuile |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------------------|----------|--------------------------|
| TJ3/TJ5 1000            | ●        | ●        | ○        | ○        | ●        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        |          |          | ○                      |          |                          |
| PC5 1000                | ●        | ●        | ○        | ○        | ●        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        |          | ○        | ○                      |          |                          |
| PC3 1000                | ●        | ●        |          |          | ●        |          |          |          |          |          |          |          | ○        |          |          | ○                      |          |                          |
| PCT 1000 PANNEAU TUILLE | ○        |          |          |          |          |          |          |          |          |          |          |          | ●        |          |          |                        | ○        | ●                        |
| PF 1000                 | ●        | ●        |          |          |          |          |          |          |          |          |          |          |          |          |          |                        |          |                          |
| PF 1100                 | ●        | ●        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        |          | ○        |                        |          |                          |
| PW 1000                 | ●        | ●        |          |          |          |          |          |          |          |          |          |          |          |          |          | ○                      |          |                          |
| PO 1000                 | ●        | ●        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        |          | ○        | ○                      |          |                          |
| PF 600 LISO             | ●        | ●        | ●        | ●        | ●        | ●        | ●        | ●        | ●        | ●        | ●        | ●        |          | ○        | ○        | ○                      |          |                          |
| PF 600 MICROPERFILAGE   | ●        | ●        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        |          |          | ○        | ○                      |          |                          |
| PF 600 MINI ONDE        | ●        | ●        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        | ○        |          |          | ○        | ○                      |          |                          |

|                    |                                        |
|--------------------|----------------------------------------|
| ●                  | STANDAR COLOR / COULEUR STANDAR        |
| ○                  | NO STANDAR                             |
| ○                  | (Sujet à quantités minimum)            |
| TYPE DE RÊVÊTEMENT | Polyester peinture 25 $\mu$            |
|                    | Special Paints: PVDF; HDX; var-HD, PET |

PAINEL 2000, Sociedade Industrial de Painéis, S.A.  
Rua Parque Industrial Nº154  
4720-536 Lago – Amares - Portugal

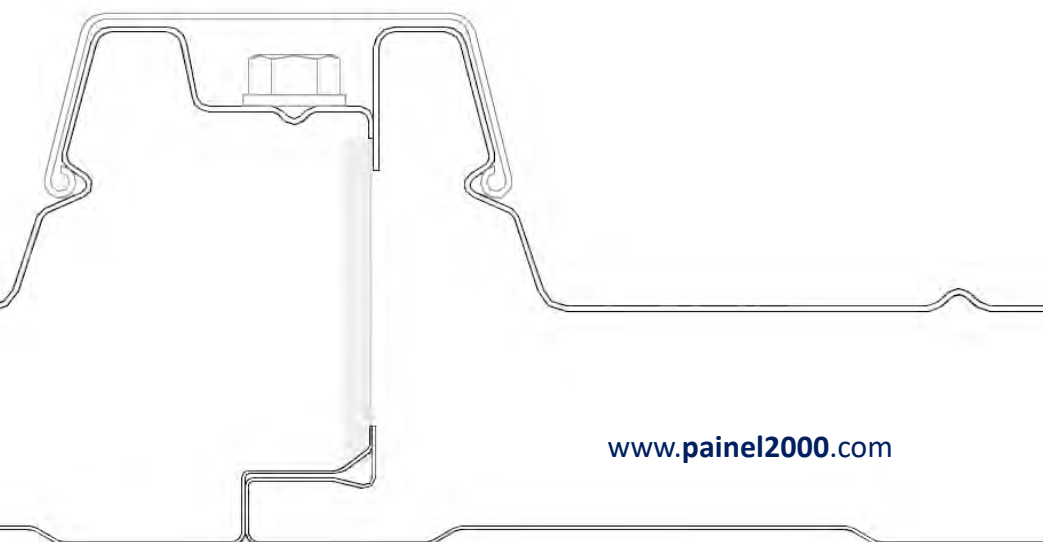
T. +351 253 321 150

e-mail: geral@painel2000.com  
www.painel2000.com

COORDINATES/COORDONNÉES:

41°36'40.7"N

8°25'12.2"W



[www.painel2000.com](http://www.painel2000.com)

