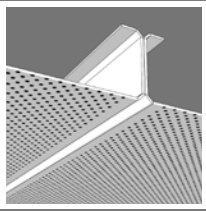


INSTALLATION GUIDE FOR THE PM300 PANEL CLIPPED UNDER I-HR CARRIER



Easy installation thanks to large center spacings, the lack of a primary grid and the use of a carrier without length-of-lay restrictions.

The “High-Resistance” panels and carriers have a higher mechanical resistance that allows longer center spacings. They also have excellent corrosion resistance (C5-M) if installed outdoors.

Please refer to the complete characteristics in the product data sheet and the system brochure.

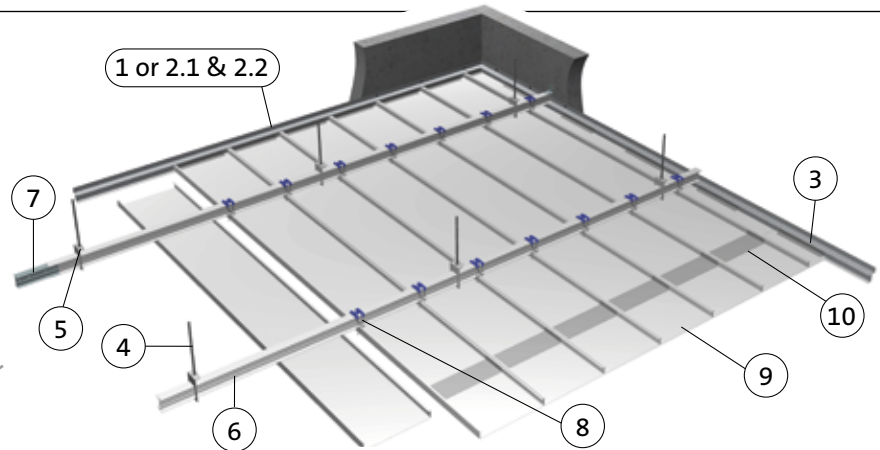
RANGE

SYSTEM CLIPPED UNDER CARRIER [PLAFOMETAL-LC-210] (installed indoors) and [PLAFOMETAL-LC-210E] (installed outdoors)


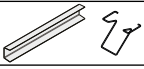





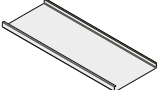


Clipped PM300 PANEL

FOR OUTDOORS INSTALLATION

- Contact us to find out the center spacings to observe according to the mechanical resistance of the selected material quality for the PM300 panel, mentioning the degree of exposure to wind and corrosion according to the layout of the project.
- The contractor must then submit its drawing to the building owner for approval.



BILL OF MATERIALS & QUANTITY PER M²

Illustration	No.	Description	Product code	Unit	Quantity/m ²
 in 1 or 2 pieces	1	Hollow joint edge profile in one part 25 x 20 x 36 x 25 mm*	Depending on the material	lm	Depending on the perimeter
	2.1 (option)	Wall angle L 25 x 45 mm to combine with Ref. 2.2 to make the hollow joint*			
	2.2 (option)	Profile Z 20 x 34.3 x 25 to combine with Ref. 2.1 to make the hollow joint*			
	3	Perimeter wedge or clip	P4820031 or P4820032	Unit	Depending on the perimeter
	4	Threaded rod Dia. 6 or 8 mm and M6 or M8 nuts depending on sizing*	Non-Plafometal	lm	$\frac{\text{Length of Rod (lm)}}{\text{Carrier center spacing (lm)}} \times \text{Hanger center spacing (lm)}$
	4a (if needed)	U-profile for anti-lifting	P4820033		$\frac{2 \times \text{Length of Rod (lm)}}{\text{Carrier center spacing (lm)} \times \text{Hanger center spacing (lm)}}$
	5	Hanger-HR in stainless steel thickness 2.5 or 4 mm	P4820034	Unit	$\frac{1}{\text{Carrier center spacing (lm)} \times \text{Hanger center spacing (lm)}}$
	5	Hanger-HR in two parts, stainless steel (for subsequent installation)	P4820035		
	6	High-Resistance I-carrier leng. 4,000 mm	P4820036	lm	$\frac{1}{\text{Carrier center spacing (lm)}}$
	7	I-carrier connector (2 parts per junction)	P4820037	Unit	$\frac{2}{\text{Carrier center spacing (lm)} \times 4}$
	8	H clips in stainless steel	P4820038		$\frac{2}{\text{Carrier center spacing (lm)} \times 0.3}$
	9	PM300-6HR/PM300-7HR panel (outdoors)	Depending on the material	m ²	1
	9	PM300-6 panel (indoors, or outdoors depending on wind load)	Depending on the material		
	10	PM300 panel length connector	P4820039	Unit	$\frac{1}{\text{panel length (lm)} \times 0.3}$
	11	Disassembly kit	P4820040	Kit	/

*The top hanging fixings and the edge profile fixings are not part of the system. They are selected by the contractor installing the system according to load-bearing capacity and the nature of the mounting brackets.

** See step 2.

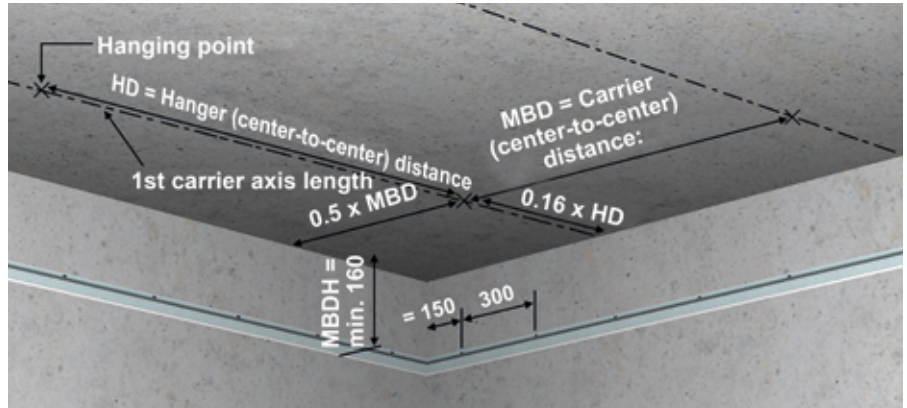
INSTALLATION GUIDE FOR THE PM300 PANEL

Clipped under carrier

1 JOINT LAYOUT OF THE PANELS, TRACING THE EDGES AND MARKING THE HANGING POINTS

- ▶ Lay out the panels, avoiding placing a joint perpendicular to a hanger, and balancing the cuts (width > 150 mm).
- ▶ Trace the center spacings of the carriers' hanging points according to the adopted values and the rules below.

CDH = Ceiling Drop Height

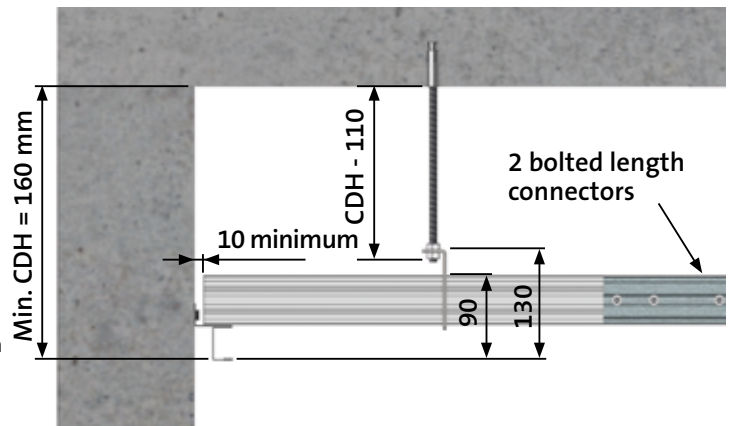


2 INSTALLING THE EDGE PROFILES

- ▶ On vertical partitions, fit the hollow joint edge profiles.
- ▶ To facilitate the installing and removal of the last row of panels, use a hollow joint edge profile in 2 parts (L wall angle + Z profile) for one of the perpendicular partitions.

CDH: Ceiling Drop Height (at least 160 mm)

Threaded rod length (minus the height of the hanger) = $CDH - 110$ mm



3 INSTALLING THE HANGERS AND CARRIERS

- ▶ Fit the top fixings*, threaded rods, hangers and carriers.
- ▶ The carriers do not need aligned clipping lugs between them, only leveling.

FOR INDOOR INSTALLATION

With stainless steel HR-hangers 2.5 mm thick, the following maximum configurations are possible:

- Center spacing of hangers: 1,800 mm, and carrier center spacing: 2,100 mm
- Center spacing of hangers: 2,400 mm, and carrier center spacing: 1,200 mm

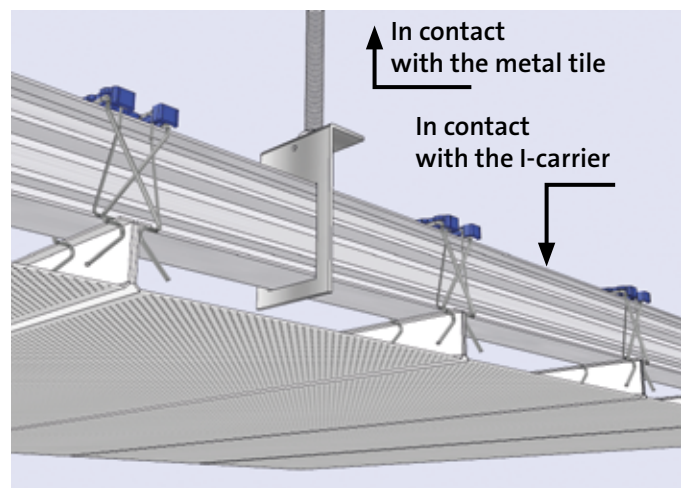
FOR OUTDOOR INSTALLATION

With stainless steel HR-hangers 4 mm thick, the following maximum configuration is possible:

- Center spacing of hangers: 1,800 mm, and center spacing of carriers: 2,100 mm (valid for a dynamic wind pressure of 500 N/m² Contact us).

Fix the carrier against the top part of the edge with a screw or L-bracket (not supplied).

Depending on wind pressure and the length of the rod, make a rigid casing between the top fixing bracket and the carrier.



*The top hanging fixings and the edge profile fixings are not part of the system. They are selected by the contractor installing the system according to load-bearing capacity and the nature of the mounting brackets.

INSTALLATION GUIDE FOR THE PM300 PANEL

Clipped under carrier

4 INSTALLING THE PANELS

- ▶ Make sure you have expansion sets compatible with the installation length of the ceiling and the structure of the building.
- ▶ Start with the second row of entire panels, ensuring they are aligned, as this row will serve as the reference point on the ceiling. This alignment can be secured by screwing a few H clips on the main I-HR carrier in the hole provided for the purpose.

Position the H clips on the carriers perpendicular to the edges of the panel, clipping them only on one side (diagram **A**).

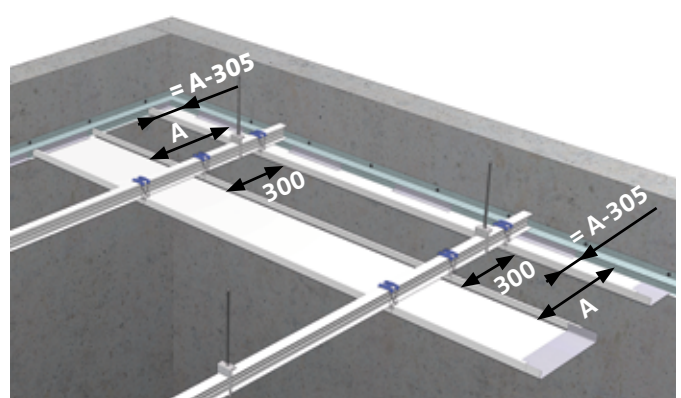
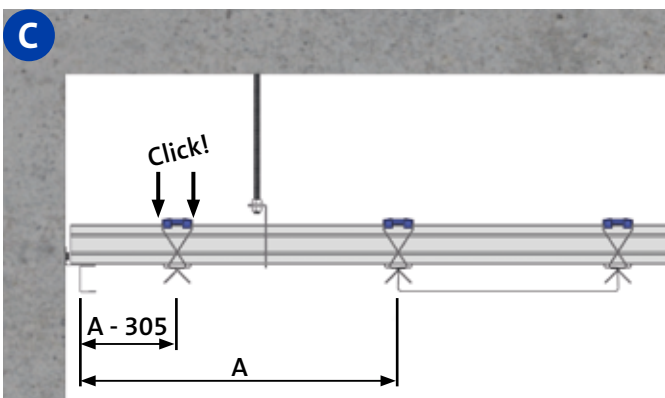
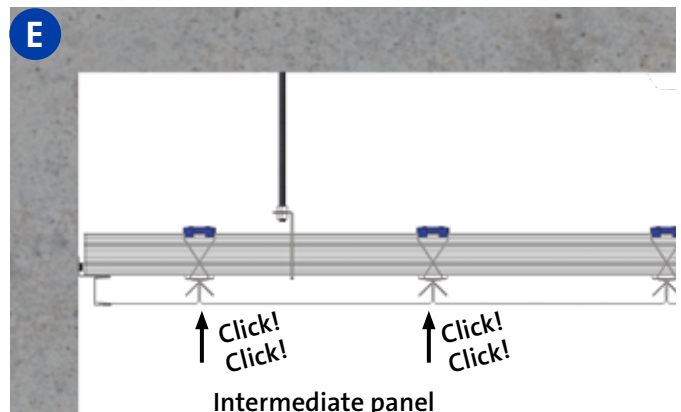
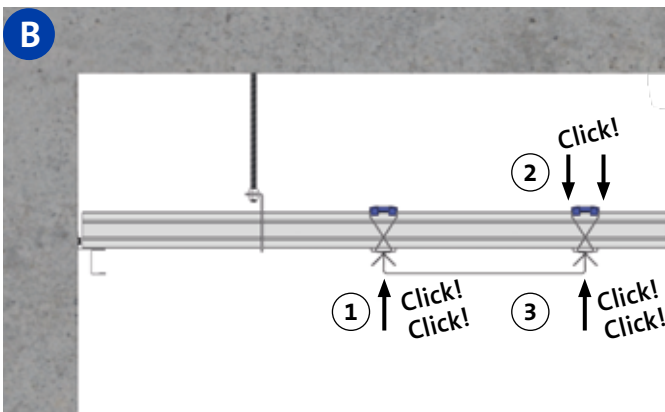
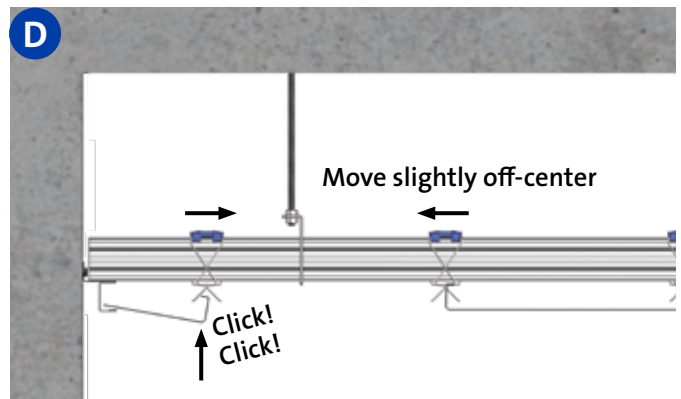
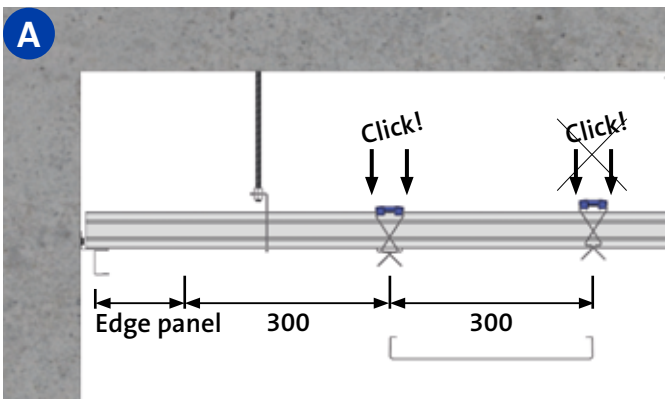
Clip the first edge of the panel (1), then clip the H clip on the opposite edge to the carrier after adjusting its positioning (2), then the second edge of the panel (3) (diagram **B**).

Take measurement A and cut the edge panel to width $A - 305$ mm (diagram **C**).

Clip and wedge the edge panel then move very slightly off-center (diagram **D**).

Clip the intermediate panel (diagram **E**).

- ▶ Systematically check that the H clips are firmly connected (2 clicks on each connection).



INSTALLATION GUIDE FOR THE PM300 PANEL

Clipped under carrier

5 CHECKING CORRECT INSTALLATION

Check the result visually.

Any unevenness between two panels indicates an incorrect connection: exert upward pressure on the joint and if need be refocus the H clip by inserting the dismantling tool into the joint.

6 OPENING AND ACCESSING THE PLENUM

Use the dismantling kit.

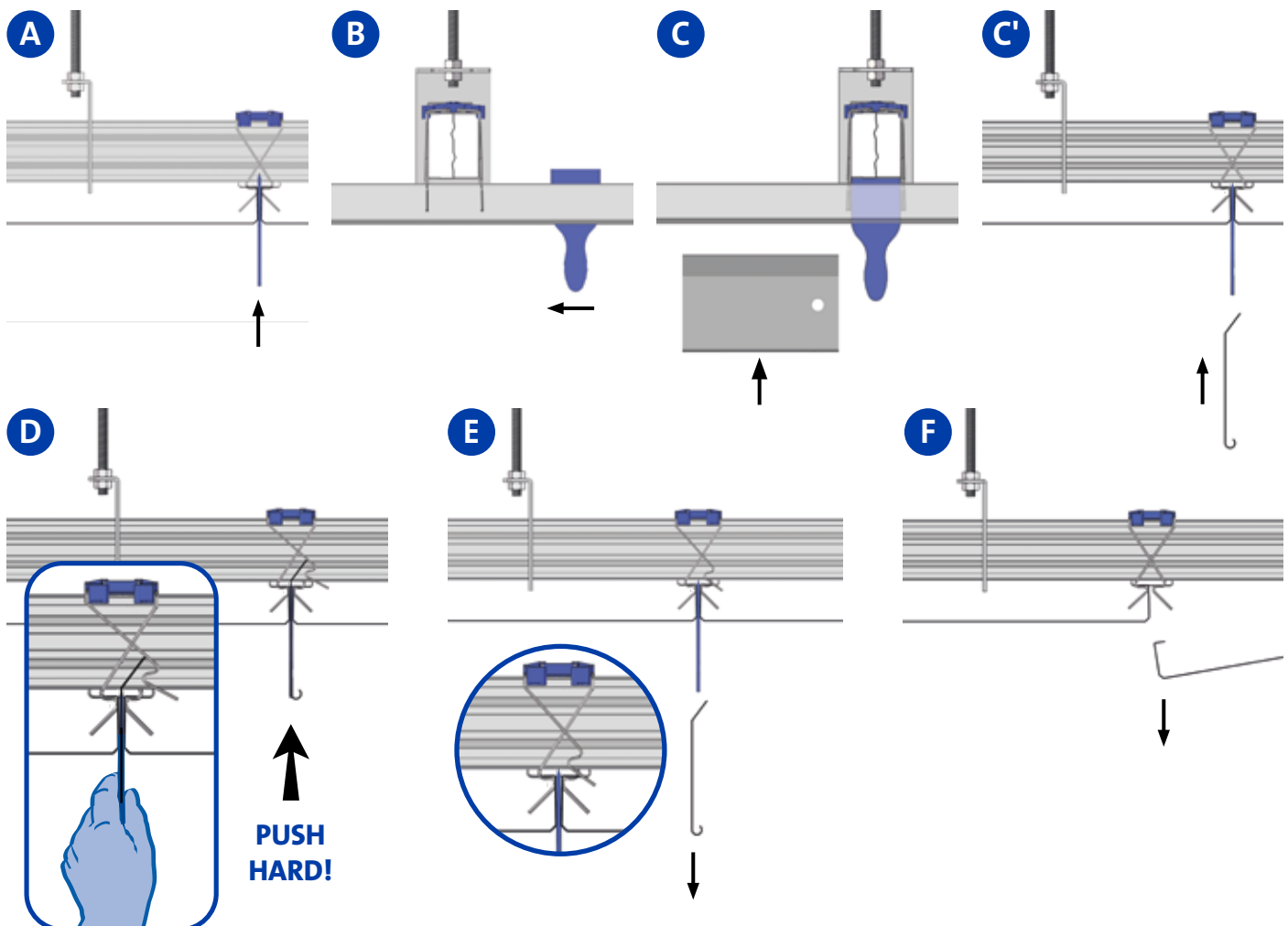
Insert the spacing spatula between the two panels (diagram **A**) then slide it lengthwise until it reaches the carrier (diagram **B**).

Lower it slightly and place it under the carrier (diagram **C**).

Insert the dismantling tool next to the spatula in the gap between the panels (curved end towards the panel you want to open) until it comes into contact with the wire hook of the H-clip (diagrams **C** and **C'**).

Push up firmly to release the wire hook from the edge of the panel (diagram **D**) while keeping the spacing spatula in place so that it remains disconnected (diagram **E**) once you remove the dismantling tool.

Repeat the steps in diagrams C to E on the other side of the spatula to release the second wire hook and disconnect the edge of the panel (diagram **F**).



INSTALLATION GUIDE FOR THE PM300 PANEL

ANNEX/TIPS

STORAGE

All our products must be stored on edge, on a flat surface and in a dry place away from inclement weather and the risk of impacts.

OUTDOORS

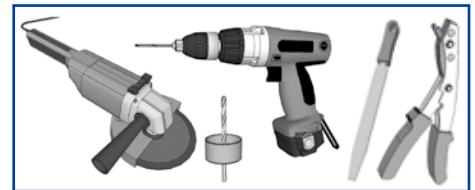
The ceiling must be sheltered from rain and run-off.

INSTALLATION IN HUMID INDOOR ENVIRONMENTS

This system is not compatible with chlorinated environments.

ON-SITE CUT OUTS

The steel panels, profiles and accessories can be cut with suitable tools. Box-outs for installing equipment can be made on site.



MAINTENANCE/CLEANING

Our ceilings only require minimal maintenance. There are various possible types of cleaning methods:

- ▶ To remove dust, use a soft brush or vacuum cleaner with a non-abrasive end fitting.
- ▶ To remove pencil or similar marks, simply use an eraser.
- ▶ To remove grease stains, use a cloth slightly dampened with a surface-active agent, taking care not to get the insulation material wet.
- ▶ To remove other stains or dirty marks, use a damp cloth or sponge, taking care not to get the insulation material wet.

Never use abrasive products.

When using chemicals, always test on a concealed part of the ceiling.

Contact us before using disinfectant solutions.

