

Before installing our products, remember the importance of using the appropriate equipment (tools and protection)



Protective gloves



Safety shoes



Safety helmets



Safety goggles

PRODUCT STORAGE IN WAREHOUSES OR AT WORKSITES

- All ceiling panels must be stored on their edges, while wall panels must be stored flat
- On a flat surface
- In a dry place away from inclement weather and the risk of impacts

INDOOR INSTALLATION

- Products must be installed in accordance with DTU 58-1 code of practice.
- If metal ceiling systems are installed over large surface areas and are subject to high variations in temperature, steps must be taken to address thermal expansion in the materials, such as installing appropriate expansion joints.

Corrosion protection according to EN 13964:

- Class B (varying relative humidity up to 90%, varying temperature up to 30°C, but without corrosive pollutants): all our solutions made from standard steel.
- Class C (relative humidity up to 95%, varying temperature up to 30°C and accompanied by a risk of condensation, but without corrosive pollutants): all our non-perforated solutions made from standard aluminum and our PM300-6HR system of clip-in panels on concealed carriers made from high-strength steel. In case of perforated panels, contact us for a specific analysis.
- Class D (more severe than the above - chlorine environments): stainless steel must not be used (the PM300 system of clip-in panels on concealed carriers is incompatible); contact us for a specific analysis.

INDOOR lacquered steel ceilings

Plafometal range			Corrosion resistance	Exposure classes according to EN 13964				
Product range	Material grade (mechanical and coating strength)		Steel category (EN 12944)	Class	Relative humidity	Temperature variation	Risk of condensation	Presence of corrosive pollutants ⁽¹⁾
	If non-perforated	If perforated						
All products	Standard	Standard	C2	B	Up to 90%	Up to 30°C	No	No
Linear panel PM300-6HR	High strength	Contact us for a specific analysis	C3	C	Up to 95%	Up to 30°C	Yes	No
Contact us for a specific analysis			C4	D ⁽¹⁾	Harsher conditions than above			

INDOOR lacquered aluminum ceilings

Plafometal range			Corrosion resistance	Exposure classes according to EN 13964				
Product range	Material grade (mechanical and coating strength)		Alu category (EN 1396)	Class	Relative humidity	Temperature variation	Risk of condensation	Presence of corrosive pollutants ⁽¹⁾
	If non-perforated	If perforated						
All products	Standard	Standard	2a	B	Up to 90%	Up to 30°C	No	No
	Standard	Contact us for a specific analysis	2a	C	Up to 95%	Up to 30°C	Yes	No
Contact us for a specific analysis			2b	D ⁽¹⁾	Harsher conditions than above			

⁽¹⁾ Chlorine environments: stainless steel must not be used (the PM300 and PM300-HR systems of clip-in panels on concealed carriers are incompatible); contact us for a specific analysis.



Installation

OUTDOOR INSTALLATION

Specific precautions must be taken.

- If metal ceiling systems are installed over large surface areas and are subject to high variations in temperature, steps must be taken to address thermal expansion in the materials, such as installing appropriate expansion joints.
- Choice of appropriate products: it is important to select the products in our catalog that are suitable for outdoor use. Refer to the datasheets describing R, U and F type strips and PM300 linear clip-in panels. Other personalized solutions can be examined on request.
- Choice of materials for corrosion resistance: depending on atmospheric conditions - humidity, temperatures, rural, industrial or sea air - select suitable organic materials and coatings offering Class C2 to C5-M corrosion resistance for lacquered steel products according to EN 12944 and Class 3a to 4 for lacquered aluminum products according to EN 1396. Refer to the table opposite for compatible Plafometal products.

In all cases, our ceilings must be protected from rain and runoff water.

Installation design for wind resistance:

- In each case, it is important to determine the peak velocity pressure of the wind in accordance with Eurocode 1, which depends on the geographic area (regions 1 to 4), the terrain roughness (0, II, IIIa, IIIb and IV), the height of the ceiling above the terrain and the angle of inclination, as well as the terrain altitude and orography (topographical relief), and the shape of the building.
- Contact us for details about the center spacings for the chosen product and specify the degree of wind and corrosion exposure depending on the project's installation specifications. The contractor is responsible for submitting its plan to the client for approval.
- For PM300 linear clip-in panel systems, also refer to the dedicated installation guide.


OUTDOOR lacquered steel or aluminum ceilings

Plafometal range			Corrosion resistance ⁽²⁾		Type of atmosphere (temperate climate)					Wind resistance
Product range ⁽¹⁾	Material grade (mechanical and coating strength)		Steel category (EN 12944)	Alu category (EN 1396)	Rural	Urban	Industrial	Seaside > 3 km from the coast	Seaside = 1 to 3 km from the coast	Design (Eurocodes 0, 1, 3 and 9)
	If non-perforated	If perforated								
F, R and U type strips (alu)	Standard	Standard	C2	3a	suitable	unsuitable	unsuitable	unsuitable	unsuitable	Center spacings according to the mechanical strength of the selected material grade and the project's installation specifications.
Linear panels PM300-6 (steel) PM300-6HR (steel) PM300-7HR (alu)		High strength	C3		suitable	suitable	low SO ₂ pollution	low salinity	unsuitable	
Linear panels PM300-6HR (steel) PM300-7HR (alu)	High strength	Contact us for a specific analysis	C4	4	suitable	suitable	moderate SO ₂ pollution	moderate salinity	unsuitable	
			C5-M ⁽³⁾		suitable	suitable	moderate SO ₂ pollution	high salinity	high salinity	

⁽¹⁾ Refer to the datasheets, system brochures and installation guide for the "PM300 system of clip-in panels on concealed carriers" for details on how to install the product outdoors.

⁽²⁾ Corrosion resistance is a concept that can help clients choose the materials for their project, but it is by no means a guarantee.

⁽³⁾ M means "Marine". Category C5-I (I means "Industrial") is not presented: it requires an additional chemical resistance test, and there are no sites in Europe with a C5-I exposure risk. Refer to EN 12944-6.

 The installing company is responsible for submitting its plan to the contractor for approval.

For more information, contact us.