



THE EXPERT IN
ACOUSTIC METAL CEILING
BY YOUR SIDE

A Saint-Gobain brand

PLAFOMETAL



PLAFOMETAL

Plafometal, a French manufacturer of acoustic metal ceilings and wall panels, can draw strength from over 40 years' recognised expertise to deliver support and guidance throughout your projects. Plafometal breathes life into your most creative architectural designs.

*Nicolas Feuillatte headquarters
designed by architectural firm Soret
Defrance Architectes and developed by
engineering consultancy SAT Manager*



YOUR PROJECTS, OUR SOLUTIONS

Browse through the pages of this brochure and check out our range of stylish acoustic solutions designed to bringing superior comfort and well-being to all the building's occupants and users.

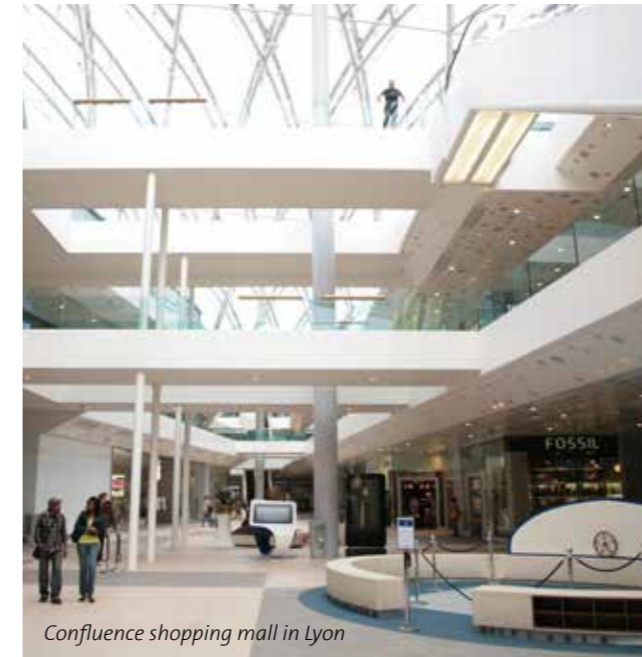
This book is designed to fire the imagination and provide a wealth of practical information. Discover all the benefits of a metal design, our teams' expertise and our ability to offer everyday support for leading all your ceiling and wall panel projects.

Together, we can use metal to give your architectural designs an eye-catching look with everlasting appeal.

RECOGNISED KNOW-HOW IN METAL SOLUTIONS

- Over 40 years' experience in metal ceilings
- Top-tier project references, including Lyon Saint-Exupéry Airport, Confluence shopping mall, Michelin Research Center, Saclay National Center for Scientific Research
- Expertise in materials (steel, aluminum, stainless steel, etc.) and finishes (perforations, colours, etc.)
- Acoustic solutions for ceilings and walls

C2N - Nanoscience &
Nanotechnologies Center at the
Saclay National Center for Scientific Research



Confluence shopping mall in Lyon



Lyon Saint-Exupéry Airport



"Les Halles" mall in Paris

YOUR PARTNER FROM PROJECT DESIGN THROUGH TO IMPLEMENTATION

- We provide support and guidance for your project to meet your requirements by selecting the best ceiling solution
- Our internal design engineering department can produce 2D/3D project models and prototypes to help you visualise the solution. They support you throughout the all project cycle
- Technical Support and Customer Service are ready to answer all your questions and enquiries on +33 (0)3 24 59 54 18



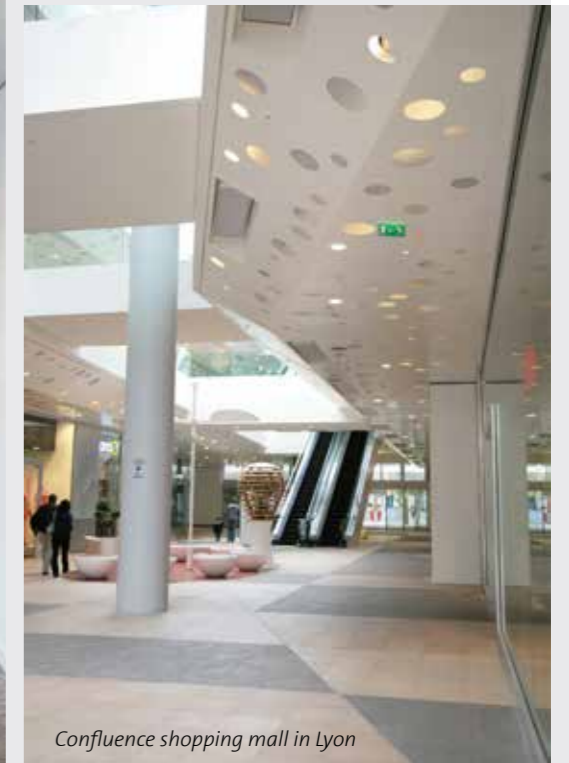
SUPPORTING CREATIVE ARCHITECTURAL DESIGNS

- Bespoke solutions developed to complement your architect's creative flair
- A range of unique and exceptional solutions, including acoustic rafts, baffles with a wooden base, 6 meter-high pyramids, curved ceilings with lighting ducts and mirror ceilings
- Customised elements designed and created to ensure a flawless finish for even the most creative projects

Corridors at the Nicolas Feuillatte headquarters and vat rooms designed by architectural firm Soret Defrance Architectes and developed by engineering consultancy SAT Manager



Nicolas Feuillatte vat room in Chouilly



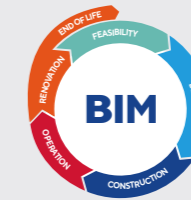
Confluence shopping mall in Lyon

AN INNOVATIVE RANGE OF PRODUCTS AND SERVICES

- An extensive and high-performance range of acoustic metal ceilings and wall panels for every possible layout
- Climate ceiling solutions to guarantee ideal thermal and acoustic conditions in offices
- A wealth of services available to our customers, such as kitting and deliveries to specific worksite zones and assistance with creating a BIM model of the layout



Plafometal is outfitting the new Saint-Gobain Tower in La Défense (France), covering over 30 office floors with heating and cooling ceiling solutions.



We have joined in the digital revolution sweeping the construction industry by offering easier access to the new working practices involving BIM systems and digital modeling technologies.

We are your gateway to a library of BIM objects (www.plafometal.com) and we deliver support throughout your project, including BIM consulting and ceiling layout design.

INNOVATION

THE DRIVING FORCE OF A MAJOR GROUP

Plafometal, a Saint-Gobain subsidiary since 2004, actively shares the Group's innovation policy by pooling its developments and expertise, which are especially important in acoustic and heat applications.

METAL: A SUSTAINABLE MATERIAL COMBINING COMFORT & SAFETY

- Metal is the ideal solution for raising the bar on your building's environmental performance and can also be adapted to fit all your spaces, bringing a distinctively modern and high-end feel to all your designs
- The material is fully recyclable, maintains its properties throughout the building's service life and helps create buildings with a remarkably long lifespan
- Whether manufactured from steel or aluminum, our metal ceilings offer countless advantages such as high durability, easy access to the plenum and comfort. With our solutions, you can combine high acoustic and environmental performance with a safe and stylish design



A responsible company

Plafometal has carried out lifecycle analyses for its products to estimate their impact on the environment. The results are published in Environmental Product Declarations (EPDs), which are verified by a third party to confirm their quality and reliability.



Acoustic comfort

Acoustic correction is essential for improving listening quality and guaranteeing intelligible speech inside a room. Our metal ceiling solutions meet the acoustic requirements for absorption (up to $\alpha_w=1$) and lateral sound insulation (up to 53 dB).



Thermal comfort

Plafometal has developed a climate ceiling solution to help heat and cool office floors in winter and summer respectively.



Visual comfort

With their light reflectance values, Plafometal's metal ceilings reflect daylight and help add more natural light.



Health comfort

Indoor air quality is an absolute necessity for ensuring the well-being of the building's occupants. Coatings are inert and cannot encourage the development of bacteria and mold. They are easy to clean and maintain.



Safety

As part of our determination to guarantee the safety of the building's occupants, Plafometal offers a wide range of products boasting the highest fire reaction rating.

CEILINGS: KEY TO ACOUSTIC COMFORT

Since the ceiling is usually the largest single free surface in a room, it plays a primary role in reducing sound reverberation.

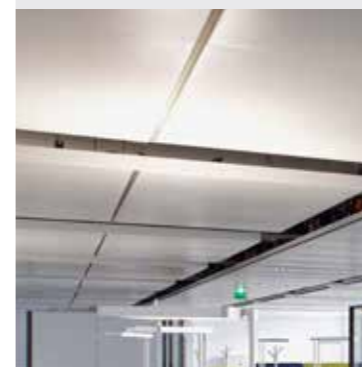
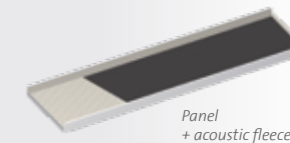
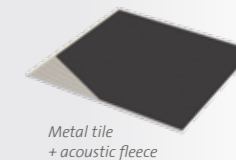
Plafometal offers a range of metal ceilings that are specifically designed to deliver high acoustic absorption and lateral sound insulation performance.

PLAFOMETAL acoustic metal ceilings



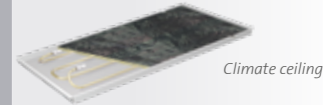
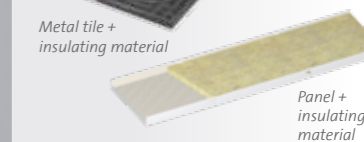
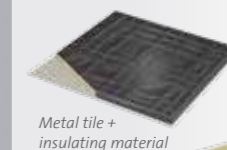
Alpha solution greater intelligibility

Acoustic absorption:
 α_w up to 0.85



Alpha Plus solution superior acoustic comfort

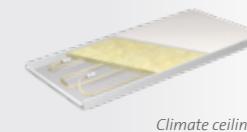
Acoustic absorption:
 α_w up to 1.00



Decibel solution more privacy

Lateral sound insulation:
 $D_{n,f,w}$ up to 53 dB
Acoustic absorption:
 α_w up to 0.75

Panel + insulating material
+ 13 mm plasterboard plate
(heavy panel)



SOLUTIONS FOR ALL TYPES OF ROOM

Plafometal helps you to create, design and bring to life your most creative architectural projects. We can offer solutions with the performance, technical qualities and style to meet any space constraints and ensure your customers' comfort.

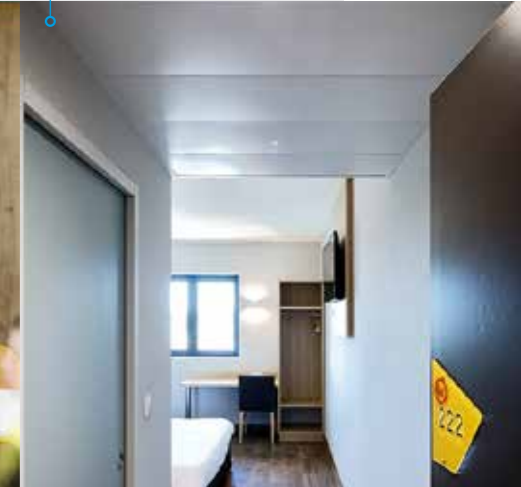
Offices



Education



Hotels



Healthcare



Transport



Retail



AN END-TO-END RANGE TO ADDRESS ALL YOUR NEEDS!

Bespoke ceilings (p.20)



Ceiling rafts (p.22)



Ceiling baffles (p.24)



Wall panels (p.26)



Self-supporting ceilings for corridors (p.28)



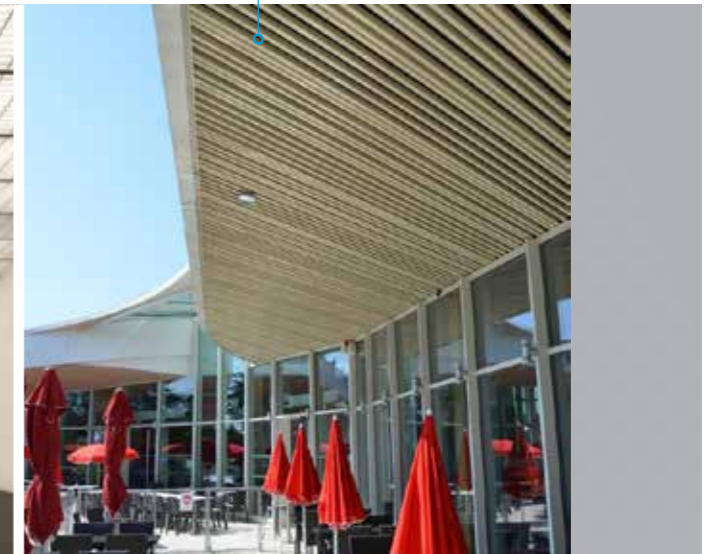
Closed suspended ceilings (p.30)



Open cell ceilings (p.32)



Linear ceilings (p.34)



Plafometal offers a broad array of modular acoustic ceilings and wall panels to suit your every need and for creating warm, original and refined moods. In addition to our standard solutions, our teams can support you by developing best-fit solutions or bespoke products specifically for your project.

BESPOKE CEILINGS

SUPPORT FOR DESIGNING YOUR CUSTOM CEILING SYSTEMS

KEY ADVANTAGES

- The expertise of a dedicated in-house design engineering department
- Fully customized systems
- Capable of accommodating any architectural constraints and limitations
- Freedom of creation, flexibility and reactivity

Vast and unlimited solutions for bringing your projects to life

Don't refrain your imagination, we will provide the solution.
Check out some of our examples.

Special shaped ceilings

- Bespoke ceiling: for creating designs and multi-level structures



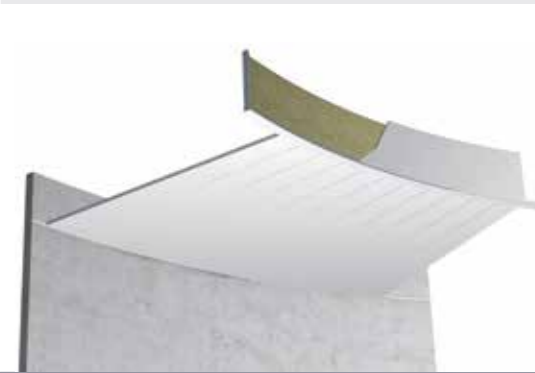
- Curved ceiling: for creating concave, convex or wavy curves



- Finishing solutions: for intersections or the perfect finishing touch



- Ceiling that fits the building's curves and adapts to the rounded corridors

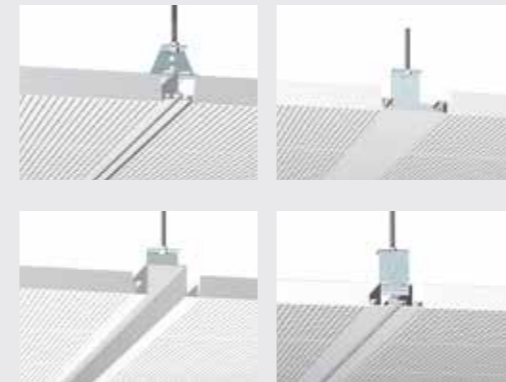


Profiles & interfaces

- Peripheral profiles: variable hollow joints and surrounding pillars



- Special suspension profiles: designed to overcome your constraints (hollow joints, partition wall inserts, sound barriers, etc.) and made from steel or aluminum



- Horizontal recesses: for connecting ceilings to walls and creating lighting ducts



- Inclined recesses: blind box trims and drops for changes in level and facade finishes



Blind box trim for a change in level



Blind box trim for finishing a wall

CEILING RAFTS

IDEAL FOR
GIVING STRUCTURE TO THE CEILING
WHILE IMPROVING ACOUSTIC
PERFORMANCE

KEY ADVANTAGES

- Increased acoustic absorption
- Bespoke solutions
- Open horizontal ceiling designed to fit any architectural constraints and limitations
- Heating/cooling option
- Swing-down panel option

*Michelin R&D center
in Clermont-Ferrand*



Ceiling rafts-type open ceiling systems

- Composed of panels with a metal frame
- Optional functionalities: acoustic absorption, thermal insulation, opening panels



*Nausicaä sea-life center in
Boulogne-sur-Mer*

Free hanging unit systems

- Various shapes: round, square, rectangular
- Suspended with cables

CEILING BAFFLES

IDEAL FOR
CREATING A MODERN DESIGN WITH
VERTICAL ACOUSTIC ELEMENTS

KEY ADVANTAGES

- Increased acoustic absorption
- Bespoke solutions
- Individual vertical elements designed to fit any architectural constraints and limitations
- Stylish finishing options (e.g. wood finish) and perforations
- Choice of suspension system



Baffle systems:
customised vertical acoustic
elements

- Acoustic absorption
- Customisation: finishing options (e.g. wood beech finish)
- Custom-designed suspension



Baffle systems: vertical acoustic elements
mounted beneath carrier profiles

- Acoustic absorption
- Suspension: carrier profiles
- Easy installation
- Suited to high ceilings



Baffle systems: directly-suspended vertical
acoustic elements

- Acoustic absorption
- Direct suspension
- Suited to low plenums

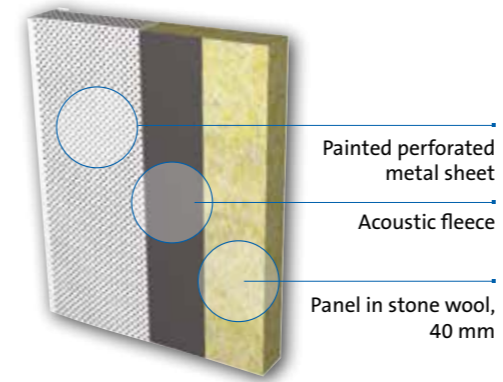
WALL PANELS

IDEAL FOR HIGH TRAFFIC AREAS

KEY ADVANTAGES

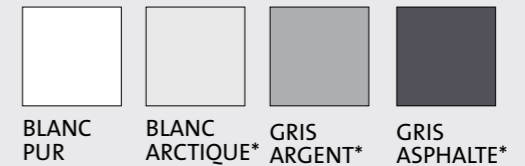
- Absorption coefficient α_w up to 1
- Proven impact resistance (NF P 08-301 standard)
- Stylish with 2 perforations and 12 "Soft Touch" colours
- French Indoor Air Quality rated A and Finnish M1 label
- Fire reaction: A2-s1, d0

In busy premises (schools, industrial facilities, etc.), it is essential to take into consideration the comfort of both their occupants and the needs of building owner. Acoustiroc® is an acoustic metal wall panel system made of perforated painted metal panels filled in with an acoustic fleece and mineral wool, framed by aluminum profiles.

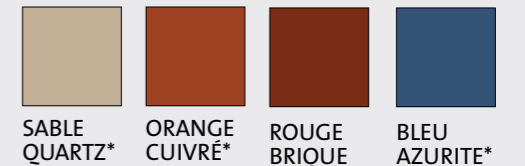


The "Soft Touch" finish adds a high-end touch and feel to these colours specifically selected by Plafometal. This matt textured finish adds warmth to the metal by creating depth. It is available in every colour except Blanc Pur and Vert Anis.

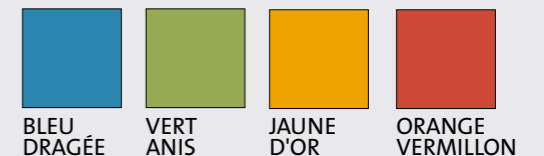
The Essentials



The Minerals

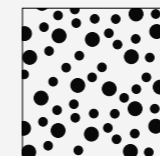


The Tonics



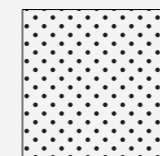
*Metallic paint

Perforations



ORION
25% Ø3 to 7
(round, irregular)

$\alpha_w = 1$
NRC: 0.95



INFINITY
11% Ø1.5 (round, regular)

$\alpha_w = 0.95$
NRC: 0.90

SELF-SUPPORTING CEILINGS FOR CORRIDORS

IDEAL FOR OFFICE AND HOSPITAL CORRIDORS

KEY ADVANTAGES

- High acoustic performance
- Easy installation and removal
- Adaptable to corridor dimensions
- Self-supporting ceiling: avoids the need for hangers and grids
- Stylishly incorporated fixtures and fittings
- Seamless color scheme
- Bespoke design with recesses and lighting ducts



Opening ceiling on concealed perimeter profiles

ORIAL swing-down panel systems

- Concealed perimeter profiles with a hollow joint: that absorbs any alignment gaps with the wall and that allows ventilation for the plenum (ideal in hospitals)
- Panels open from either end
- Panels with built-in specific perimeter profiles
- Fire-resistant and oversize options



Opening ceiling on exposed perimeter profiles

Swing-down and sliding panel systems: ARIES, AXESS and TRANSLABAC

- Panels with built-in specific perimeter profiles
- Visible perimeter profiles
- Good airtightness and soundproofing properties



Ceiling hook on concealed perimeter profiles

HORUS hook-on systems

- Invisible profiles
- Fast installation and removal



Ceiling installed on exposed perimeter profiles

Self-supporting systems: PM2, PM3, PM4, PM8 SF, PM10, PM12

- Installed on wall angles: fast installation
- Easy to cut
- Easy installation and removal

CLOSED SUSPENDED CEILINGS

IDEAL FOR
OFFICES, MEETING ROOMS,
SHOWROOMS

KEY ADVANTAGES

- Wide and complete range: from metal tiles to monolithic ceilings on concealed grids or Omega bandraster
- Acoustic absorption α_w up to 1.00
- Extensive choice of styles (perforations, colours, shapes, etc.)
- Easy to install, use and maintain

Ceiling installed on exposed carriers (for partitioning)



Premium office solutions:
PM2, PM8 and PM5 systems

- Stylishly modern
- Access to the plenum
- Superior comfort (acoustic, thermal, visual, etc.)
- The suspension bandrasters traditionally follow the facade layout. They can be used to structure office floors by installing removable partition walls



Ceiling hooked or clipped under concealed grids

Ceiling with a discreetly stylish finish: MONOBAC and HORUS

- Concealed grids for ceilings with a plain appearance
- The plenum can still be accessed



Lay-in tiles ceiling with exposed T grid

Ceiling adaptable to all types of room: H0, H2 and H8

- Metal tiles installed on a T grid
- Easy removal by simply lifting the panel
- Stylish finishes: several types of edges (straight, flush, tegular, etc.)

OPEN CELL CEILINGS

IDEAL FOR
RETAIL AREAS, LIGHT EFFECTS
AND AERATED SPACES

KEY ADVANTAGES

- Open cell ceiling system made from aluminum
- Square or linear cell design
- Suspension system suited to two grid types: T or integrated
- The grid profile is similar to open cell component for an invisible suspension structure



Cellular open cells

Open cell systems with square cells

- Square cells
- Different suspension systems:
T grids or integrated grids



Linear open cells

Open cell system with a linear appearance:
GRILAM

- Integrated grid
- Carriers and metal tiles in kit format
- Stylish: several colours for the lower and upper components of the open cells

*Centre Pompidou-Metz, night-time
view of Gallery 3 © Olivier H. Dancy*

LINEAR CEILINGS

IDEAL FOR
COVERING THE CEILING WITH STEEL
OR ALUMINUM LINEAR ELEMENTS

KEY ADVANTAGES

- Custom lengths to reduce offcuts
- Seamless colour scheme
- Several finishes (colours, gap covers, spotlight, etc.)
- Can be installed on outdoor structures
- Stylish: personalised multi-strip linear appearance (variations in widths, heights and gaps)



Clipped linear panels

Clipped linear panel systems on carrier profiles

- Ideal for outdoor structures
- Long lengths



Aluminum linear strip

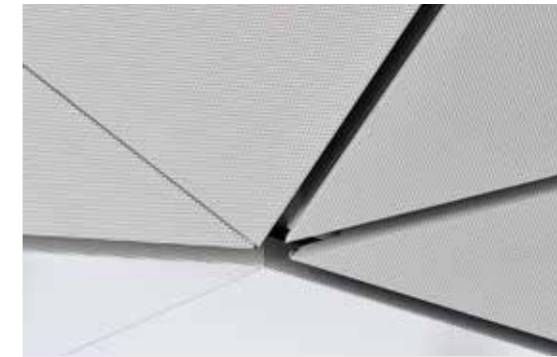
Clipped linear strips systems on carrier profile

- Wide choice of styles: aluminum colours and edge finishes (round, square, closed, etc.)
- Modules in different sizes (widths and heights)
- Personalised linear appearance with multiple linear strips
- Long lengths

FLEXIBLE SOLUTIONS TO FIT ALL YOUR PROJECTS

Every project is unique and special, and Plafometal's solutions can satisfy all your needs, desires and constraints in terms of cut-outs, built-in light fixtures, recesses between intersections and various types of accessories and equipment such as sprinklers and ventilation systems.

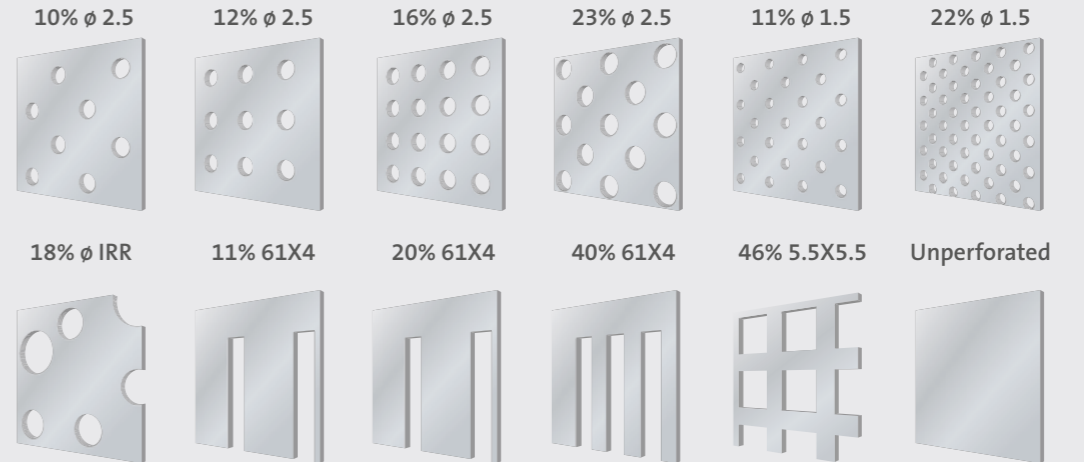
Such is Plafometal's flexibility that panels can be manufactured to the perfect size for your project, thereby making installation quick and easy.



Plafometal can accommodate every type of layout by offering several types of panel opening systems (lift-up, sliding, swing-down, etc.), customised finishes for intersections and seamless hollow joints between corridors.

A WIDE CHOICE OF STYLES

The perforations in metal ceilings address the need for acoustic comfort. They also play a part in the ceiling's stylish finish. Plafometal proposes a broad selection of standard perforations shown below. Other designs can be examined on request.



The chosen colours can also bring an original touch to your project. Plafometal offers personalised colour schemes from the RAL colour chart.

PLAFOMETAL TOOLS FOR AN EVERYDAY BURST OF INSPIRATION

Explore Plafometal's flagship projects by taking a look at the project data sheets available on the website. For example, discover how Plafometal designed climate ceiling rafts for Michelin's new R&D center or how the teams developed over 80 km of baffles for the new terminal at Lyon Saint-Exupéry Airport.



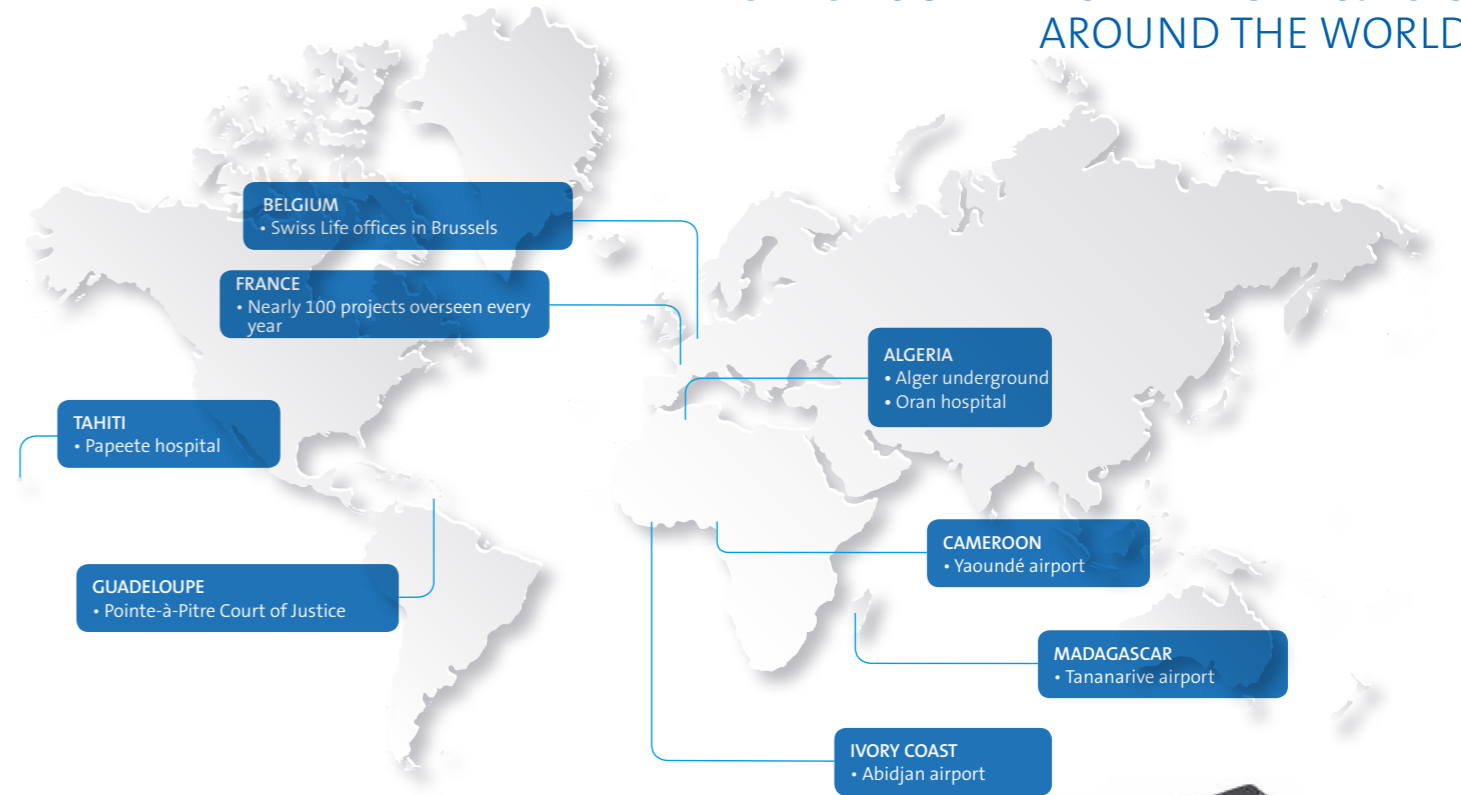
Specification guidelines and documents can be downloaded from the Learning Center on the www.plafometal.com website to help you draft your project briefs and specifications.



Installation videos are also available on the Plafometal YouTube channel.



CHECK OUT PLAFOMETAL'S PROJECTS AROUND THE WORLD



SEE ALL OUR SOLUTIONS
AND CONTACTS AT
WWW.PLAFOMETAL.COM

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