PLAFOMETAL CEILINGS

A complete range of metal design solutions

PLAFOMETAL

Plafometal makes the conception, design and realisation of your most daring architectural dreams child's play.

Allow your imagination to run wild with the flexibility inherent to metal, the noblest of materials, and let your creative streak do the talking.

Your projects, our solutions

For 40 years, we have been drawing strength from our experience and expertise to mastermind innovative, functional and lasting solutions.

Our specialised sales and technical teams deliver support throughout your project lifecycle and help breathe life into your ideas.

This complete series is intended to be both a source of inspiration and information. It will encourage you to create eye-catching metal designs that will set your architectural projects apart for years to come.

Browse through this catalogue and discover how our solutions can take your projects to the next level.

Eric Rampelberg
Managing Director of PLAFOMETAL

Expertise

Lyon Confluence, client: Unibail-Rodamco, installation companies: Charbonnel and Decostaff.


Project
25
25


Style

The project, located at 62 rue de Lisbonne and 13/15 rue Murillo in Paris' 8th arrondissement, is an office block surrounded by stone buildings showcasing the varied architectural styles characterising the late 19th century and early 20th century.
The new facade blends in seamlessly by combining stone and metal like a score of musical notes.
The partition draws rhythm from the suspended glass boxes, which add a percussive effect to the facade. The buildings opposite are reflected in the glass boxes, creating a myriad of architectural portraits pleasantly adorning the district's office spaces. The transparent glass elements transpose the outer facade to the inside of the building, while the ceiling represents the building's "6th facade".
With this state of mind, the ceiling concept remains true to the "filing in gaps" principle of the outer facade. It focuses on a partition of both wide and narrow rectangular modules, either joined or separated using hollow joints, combined with different finishes, whether smooth or perforated, and even specific technical fixtures, light fittings and air vents.

Involving Plafometal in the initial research process helped transform the aesthetic concept into a "bespoke" product developed from technical details geared towards the company's industrial process. This approach also enabled us to meet the aesthetic, technical and financial requirements of client Gécina.

Beatrice Mahuzier, state-registered architect
Architectural firm: A. Béchu & Associés

Value creation

Partnership

"The main constraint was combining an easy-to-disassemble ceiling with a structure featuring both concealed and semi-visible grids, thereby facilitating the ceiling's ability to support the future partitions.
Plafometal proposed solutions and adapted its production processes to deliver a satisfactory solution to our joint client. It was fully responsive when it came to following up any modifications or adaptations to the panels in response to the constraints imposed by the HVAC and lighting work packages. No issues were reported during acceptance.
To achieve the set objectives, Plafometal was the right partner from start to finish. Its involvement, availability and the quality of the manufactured products were instrumental in delivering work providing complete satisfaction."

Christophe Jouault, Aquilon

Solution


Vision

Performance

Material


Inspiration

Centre Pompidou-Metz, view of Gallery 3 at night © Shigeru Ban Architects Europe and Jean de Gastines Architectes, with Philip Gumuchdjian for designing the competition's winning project / Metz Métropole / Centre Pompidou-Metz / Photos Olivier H. Dancy

Modernity

Metal: the partner for superior environmental quality in buildings

Without a doubt, steel and aluminium offer a number of benefits in response to the environmental concerns raised at each stage in a building's lifetime.

RECYCLABLE

Steel can be fully recycled without affecting its qualities or incurring landfill costs. Recycling aluminium only uses 5% of the energy required to produce the metal in the first place. These two materials can be recycled over and over again.

RECYCLED

Steel is the most recycled material in the world.
In France and elsewhere around the world, close to 40% of all steel produced comes from recycled scrap. Recycling aluminium covers nearly 40% of global demand.

DURABLE

Galvanised steel and aluminium are highly resistant to corrosion, which can be reinforced by a polyester lacquer that has been polymerised in an oven to offer outstanding resistance to both UV rays (certain coatings are suitable for outdoor applications) and scratches. Coated steel has a service life in excess of 25 years.

SPACE-SAVING

Steel's natural mechanical properties (including a high resistance-to-weight ratio) are ideally suited to creating lightweight load-bearing structures that increase the habitable surface area.

SUSTAINABLE

Thanks to corrosion protection systems, metallic coating (galvanisation) or paint, steel retains its properties throughout the building's lifecycle and guarantees its longevity. Aluminium is immune to humidity, sunlight and temperature.

EASY TO MAINTAIN

Metal does not require any specific maintenance and is easy to clean.

LESS SITE POLLUTION

Minimise pollution at the construction site.
Using semi-finished products means that some of the work is performed in the factory, rather than on site. Construction sites are quieter and cleaner as a result, without any dust or waste, a major asset especially in urban environments.

CLEAN DEMOLITION AND RECOVERY

Steel and aluminium can easily be recovered since the industry is perfectly organised, this help improve the bottom line of the demolition process as a whole.

SORTING AND RECYCLING

Thanks to its unique magnetic properties, steel is easily sorted in rubbish and household waste. Through selective collection, scrap can be efficiently re injected into the production process.

PLAFOMETAL

Metal ceilings: the best solution for all your development projects

PROVEN RESISTANCE

Resistant

The production process provides the necessary mechanical rigidity which makes metal ceilings the most resistant solution in the suspended ceiling market, especially during installation and maintenance.

ACCESSIBILITY GEARED TOWARDS YOUR NEEDS

Large dimensions available

Enjoy easy access to the plenum by using the large sizes available in our range.

Several solutions for accessing the plenum

Choose the most suitable solution according to the layout of your plenum and how often access is required: removable, sliding and swing-down panels.

ACOUSTIC COMFORT

High-performance sound absorption

Fine-tune your acoustic performance level with the wide range of perforation possibilities associated with various acoustic add-ons.

Effective lateral insulation

Improve confidentiality between adjacent rooms by adding a rigid plate to the back of the metal panel.

COMPLETE FREEDOM OF DESIGN

A wealth of creative possibilities

Choose from our wide range of customisable shapes, adjust the dimensions and play with the colours and perforations to create a truly unique architectural project.

Several finishes

Tegular, open, directional, inlay, linear or monolithic – you decide what your finished project will look like.

Adaptable ceilings

Find a Plafometal solution, whatever your building's span.

Equipment that blends in seamlessly

Seamlessly incorporate light fittings, air conditioning equipment, chilled beams, fire detectors, loudspeakers...

Modular spaces

Position and reposition partitions walls thanks to our self-supporting panels associated with our specific profiles with or without hollow joints.

Bespoke projects

Contact our design office for support throughout your project and guidance with your technical decisions.

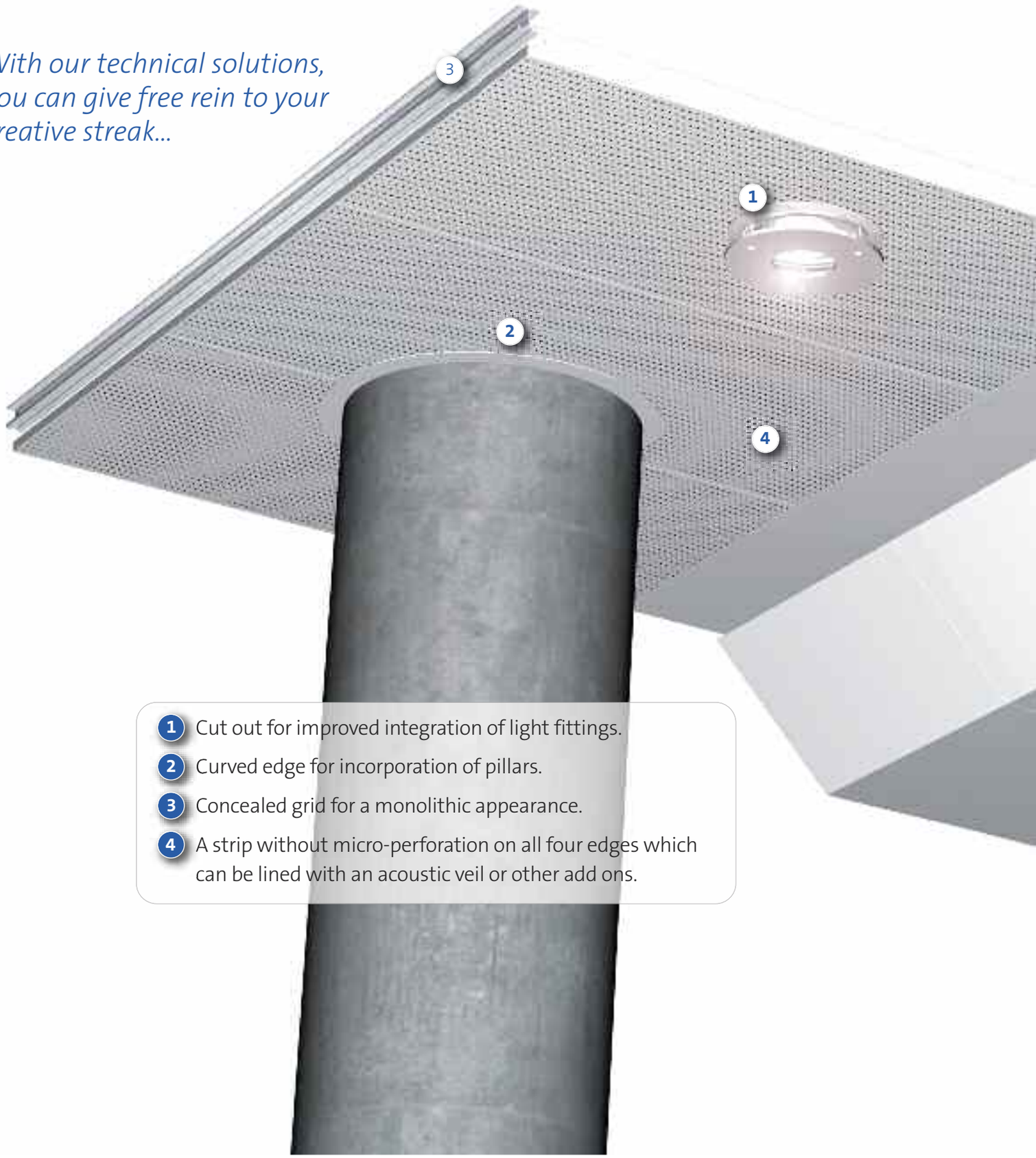
AN ENHANCED CONSTRUCTION SITE

Rapid assembly

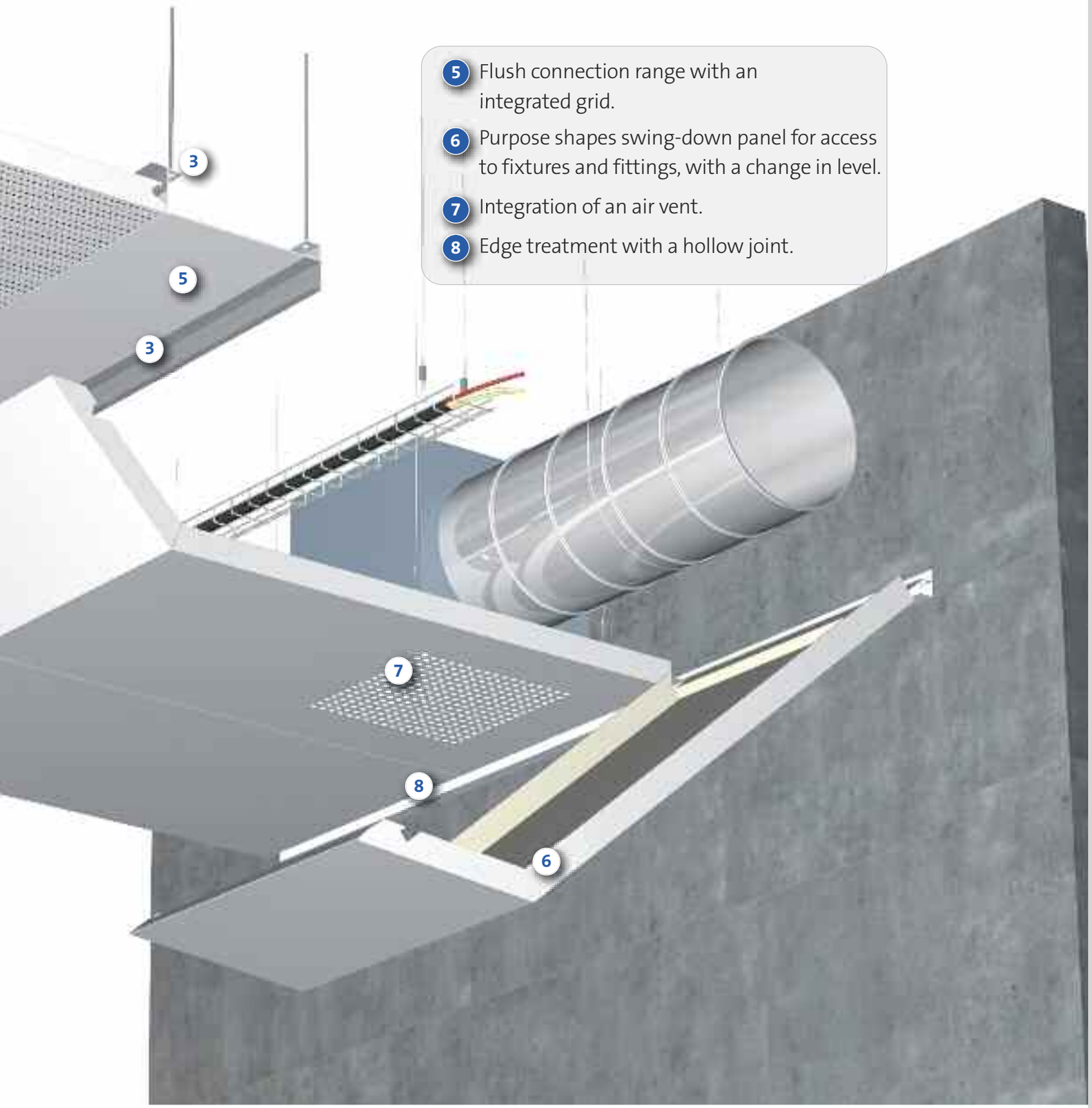
Raise the efficiency level on site. Our products are delivered in the required dimensions for on-site assembly, thereby shortening and keeping installation times firmly under control.

One material, one skill

With our technical solutions, you can give free rein to your creative streak...



1. Cut out for improved integration of light fittings.
2. Curved edge for incorporation of pillars.
3. Concealed grid for a monolithic appearance.
4. A strip without micro-perforation on all four edges which can be lined with an acoustic veil or other add ons.



5. Flush connection range with an integrated grid.
6. Purpose shapes swing-down panel for access to fixtures and fittings, with a change in level.
7. Integration of an air vent.
8. Edge treatment with a hollow joint.

Sustainable development

Our metal ceilings meet 11 of the 14 targets set out in the French HQE High Environmental Quality scheme

ECO-CONSTRUCTION

TARGET 1 — HARMONIOUS RELATIONSHIP

Free choice of shapes that can be adapted to the project and architectural constraints.

TARGET 3 — A LOW-POLLUTION SITE

Fast installation and less pollution by supplying made-to-measure products ready cut for insertion of equipment.
Break down and recovery with no disposal in landfills.

TARGET 2 — PROCESSES AND PRODUCTS

Can be recycled at 100% over and over again; 40% of steel comes from recycling. Service life: more than 25 years.

ECO-MANAGEMENT

TARGET 4 — ENERGY MANAGEMENT

Light-reflecting coatings reduce the need for artificial light.

TARGET 7 — SERVICING AND MAINTENANCE

Our ceilings are sustainable and our removable solutions ensure long-term access to the equipment in the plenum. Servicing amounts to no more than simply cleaning whenever required.

COMFORT

HYGRO-THERMAL COMFORT

TARGET 8

Our ceilings can be combined with stone wool to improve thermal insulation.

VISUAL COMFORT

TARGET 10

Light reflecting coatings diffuse incoming daylight and help provide natural light.

ACOUSTIC COMFORT

TARGET 9

The perforation combined with sound absorption add ons allow our ceilings to meet the specified acoustic requirements.

OLFACTORY COMFORT

TARGET 11

Odourless material.
The possibility to integrate solutions in our ceilings contribute to HVAC performance.

HEALTH

SANITARY QUALITY

TARGET 12

The coatings used are inert and do not promote bacterial or mould growth. They are easy to clean.

AIR QUALITY

TARGET 13

Our ceilings boast an A+ classification for indoor air quality.
The possibility to integrate solutions used in our ceilings contribute to HVAC performance.

Performance of PLAFOMETAL solutions

ACOUSTIC COMFORT

The ceiling is the free surface most suited to acoustic treatment inside a building. Using a sound-absorbing suspended ceiling improves the level of acoustic comfort inside a room. It can also enhance sound insulation between adjacent rooms.

Sound absorption

Perforation solutions used in Plafometal metal ceilings are combined with various acoustic add-ons to achieve absorption performance levels suitable for most spaces:

- Non-woven acoustic veil for an absorption coefficient α_w between 0.55 and 0.80.
- Polythene wrapped mineral wool film for an α_w between 0.60 and 0.85.
- Mineral wool with a greater thickness and density for an α_w of up to 1.

Lateral attenuation

Versatile, the absorbant panels combined with an add-on solution such as steel sheet or plasterboard placed in the plenum side, ensure that our Plafometal metal ceilings deliver superior lateral attenuation.

VISUAL COMFORT

Thanks to their light reflexion value greater than 90% in the unperforated version and greater than 85% in perforated versions, Plafometal metal ceilings reflect incoming daylight and help provide natural light.

PROTECTION AGAINST CORROSION

When used indoors, the materials and coatings of Plafometal metal ceilings offer Class B protection against corrosion pursuant to EN 13964:2004/A1:2006 and, depending on the requirement, can be implemented with Class C or Class D protection.
For outside installation, our ceiling panels can be finished with coatings offering category RC4 corrosion resistance pursuant to EN 10169:2010.

FIRE PROTECTION

Active protection measures

Most Plafometal metal ceiling elements can be provided with factory-made cut outs for perfect integration of fire detectors and sprinklers.
Our suspended open cell ceilings enable active fire protection networks to operate with a level open area according to EN 12845:2004.

Reaction to fire

Nearly all Plafometal metal ceiling solutions offer the best fire classification performance pursuant to EN 13501-1 (“Euroclasses”), with or without an acoustic veil bonded to the back of the panels: A1 for all non-lacquered and prepainted products; A2, s1, d0 for powder coated products. They satisfy the requirements for public and high-rise buildings.

Fire resistance

Plafometal offers a multitude of metal ceiling solutions boasting:

For France

Fire resistance performance of FS 1/4 h and FS 1/2 h according to the test described in Appendix 1, Section 2.5 of the French Regulation of 22nd March 2004 and which meets applicable French fire regulations for shared horizontal corridors inside high-rise buildings.

For Belgium

Fire resistance performance of FS 1/2 h according to a test performed pursuant to the Belgian NBN 713-020 standard and which meets applicable Belgian fire regulations for escape routes, areas accessible to the public and collective kitchens.

INDOOR AIR QUALITY

Under French law, construction and decorative products must feature a label that simply and clearly indicates their volatile organic compound (VOC) emission level.
The product’s emission level is indicated by a classification ranging from A+ (very low emissions) to C (high emissions), according to the principle already applied to household appliances or vehicles. All Plafometal metal ceiling solutions, with or without an acoustic veil bonded to the back of the panels, offer the best sanitary health classifications, namely A+.

Essential elements

Tiles 32

For all premises

ON A VISIBLE GRID

> SEE PAGE 34

ON A CONCEALED GRID

> SEE PAGE 46

Linear elements 48

For reception areas and outdoors

LINEAR STRIPS

> SEE PAGE 50

LINEAR PANELS

> SEE PAGE 58

Open cell ceilings 72

For halls and commercial areas

COST-EFFECTIVE ELEMENTS

> SEE PAGE 74

REMOVABLE ELEMENTS

> SEE PAGE 78

SWING-DOWN ELEMENTS

> SEE PAGE 84

Creative elements

Self-supporting panels 88

For corridors and beam grid installations

ON A VISIBLE GRID

> SEE PAGE 90

ON A CONCEALED GRID

> SEE PAGE **104**

Opening panels 106

For frequent access in corridors without having to disassemble the panel

SWING-DOWN ELEMENTS

> SEE PAGE **108**

SLIDING ELEMENTS

> SEE PAGE **114**

Customised solutions 116

For greater freedom of design

SHAPES

> SEE PAGE **118**

INTERFACE TREATMENT

> SEE PAGE **128**

Selection guide by application

Application			**Education** (schools, colleges, universities...)	**Health** (hospitals, healthcare centres)	**Office**
Tiles	On a visible T grid		●	●	●
	On a concealed grid		●	●	
Linear elements	Linear strips				
	Linear panels		●	●	
Open cell ceiling	Cost-effective elements				
	Removable elements				
	Swing-down elements				
Self-supporting panels	On a visible grid		●	●	●
	On a concealed grid		●	●	●
Opening panels	Swing-down elements			●	
	Sliding elements			●	
Customised solutions	Shapes		●	●	●
	Interface treatment		●	●	●

Industry	Retail (shops, shopping centres, supermarkets...)	Infrastructure (airports, stations...)	Culture (multimedia libraries, museums...)	Restaurants	Hotels
	●	●	●	●	●
	●	●	●	●	●
	●	●		●	●
●	●	●	●		
	●	●		●	●
	●	●		●	●
	●	●		●	●
●	●	●	●	●	●
●	●	●	●	●	●
	●	●	●		●
	●	●	●		●
●	●	●	●	●	●
●	●	●	●	●	●

Selection guide by destination

By destination			Halls	Corridors	Lift landings	Offices	Open spaces
Tiles	On a visible T grid		●		●	●	●
	On a concealed grid		●				
Linear elements	Linear strips		●	●	●		
	Linear panels		●				
Open cell ceiling	Cost-effective elements		●				
	Removable elements		●				
	Swing-down elements		●	●			
Self-supporting panels	On a visible grid		●	●	●	●	●
	On a concealed grid		●	●	●	●	●
Opening panels	Swing-down elements			●	●		
	Sliding elements			●	●		
Customised solutions	Sliding		●	●	●	●	●
	Interface treatment		●	●	●	●	●

●	●			●	●							●	Meeting rooms
●	●			●	●						●	●	Class-rooms
●	●										●	●	Patient rooms (health)
●	●				●						●		Recovery rooms
●	●				●					●	●		Sanitary facilities
●	●										●		Professional kitchens
●	●			●				●				●	Canteens, cafeterias
●	●				●					●	●		Service facilities
●	●								●	●	●		Exterior canopies

PLAFOMETAL

Product summary

On a visible T grid

H0

Straight edge for T15 or T24

Page 34

H2

Flush edge for T24

Page 36

H8

8 mm tegular edge for T15

Page 38

H8

Flush edge for T15 hollow joint

Page 38

H9

9 mm tegular edge for T24

Page 40

Tiles
For all premises

Suitable for all types of projects.
Easy to install and compatible with all traditional grids.

On a visible T grid:
> Flush and tegular styles.
> Easy to disassemble by simply lifting the tile.
> Excellent resistance for regular handling.

On a concealed grid:
> Monolithic appearance.
> Secure access to plenum, requiring use of a disassembly tool.
> Good impermeability.

PLAFOMETAL BENEFITS

- Factory-made cut outs for integrating equipment.
- Continuity of colour whatever the number of deliveries.
- Possibility of polyester powder coating in 180 RAL colours.
- Large choice of perforations in our range and others available depending on quantity
- Additional black acoustic on request.
- Sound absorption coefficient α_w between 0.55 and 1.

H20
20 mm tegular edge for T24

Page 42

Silvametal®
H0, H8 or H9 decorative wood effect

Page 44

On a concealed grid

Monobac
Clip in system, monolithic aspect

Page 46

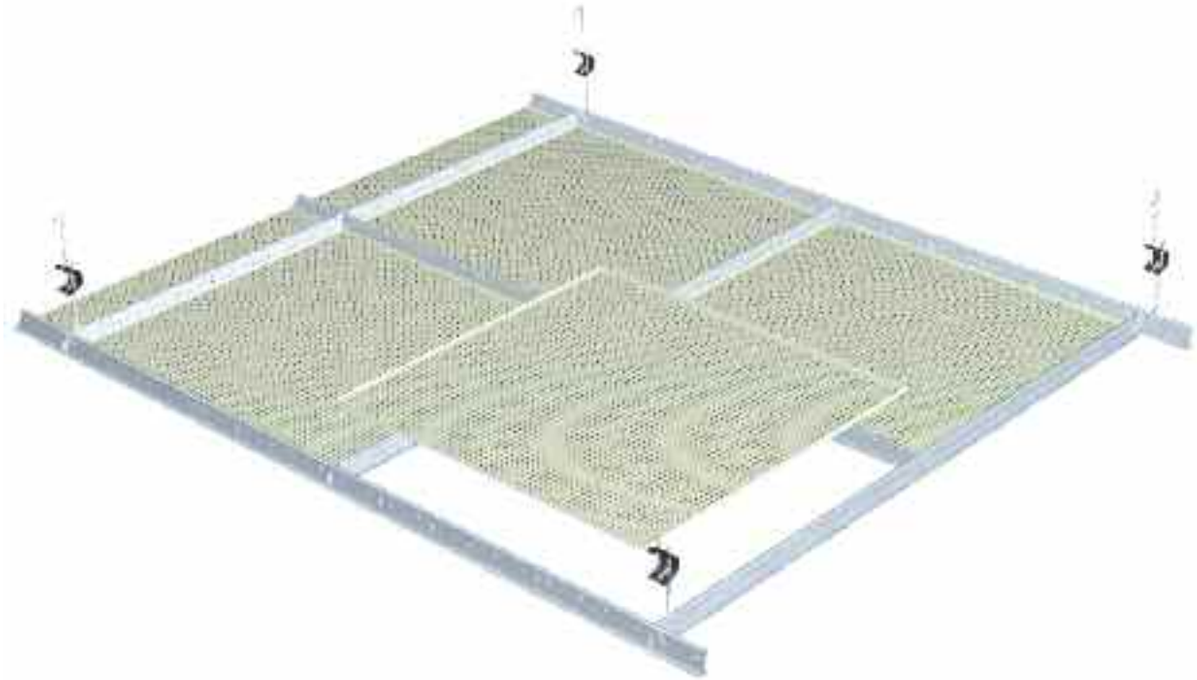
H0

> Straight edge tile for T15 or T24

- Designed to be installed on a T15 or T24 grid.
- The flat underside of the panel lays on the grid.

Product benefits

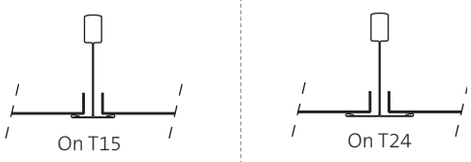
- Excellent handling resistance for access to the plenum.
- The standard, cost-effective solution for metal ceilings.



H0

> Straight edge tile for T15 or T24

Installation according to DTU 58.1 *(see page 158 for details)*



We strongly advise installing crossrunners without overlapping to ensure a better result.

Disassembly for access to the plenum

- By simply lifting the panel in the grid.
- Possibility of a panel anti-lifting fixture by adding peripheral brackets CA113. Please contact us if you are interested in installing an access hatch.

Absorption

(see page 150 for details and α_p coefficient per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.60 to 0.85 with polythene wrapped wool absorbant depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

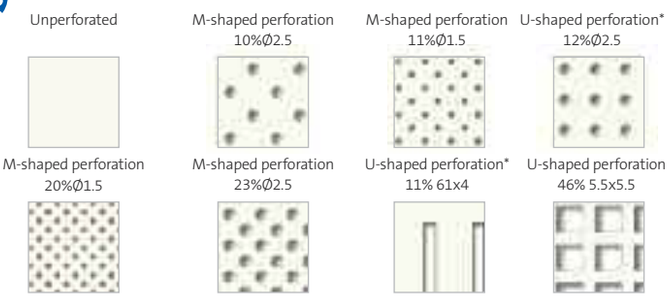
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Module dimensions	• 600 x 600 mm. • 600 x 1200, 675 x 675, 625 x 625 mm and other dimensions on request.
Materials	•Galvanised steel 0.5 mm thick. •Aluminum 0.6 mm thick on request.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.
Packaging	•In 600 x 600 mm: package of 14 tiles or 5.04 m², pallets of 40 packages or 201.6 m². •Grid not included.

Perforations on steel *(for scale illustrations: see page 144)*



** Not stocked.*
Please contact us if you would like perforations on aluminum.
All panels have an unperforated peripheral border measuring a few millimetres.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.
- Polythene wrapped mineral wool film to be installed on site on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

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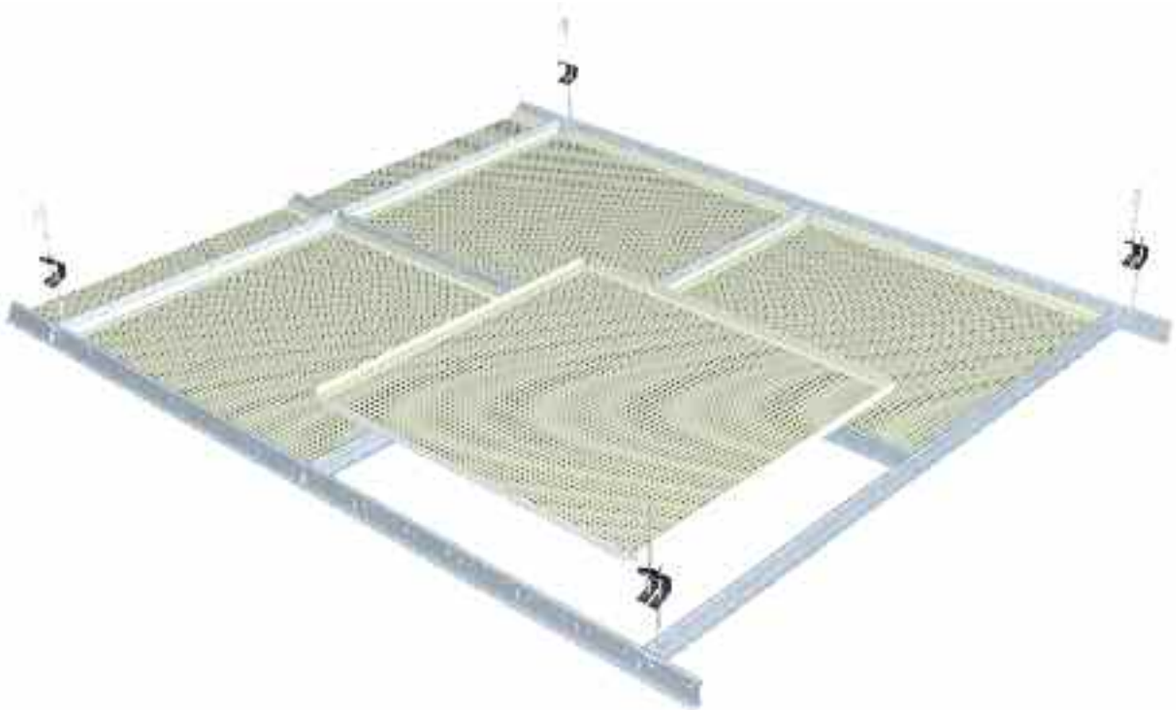
H2

> Flush edge tile for T24

- Designed to be installed on a T24 grid.
- A slight edge drop makes the panel flush with the grid.

Product benefits

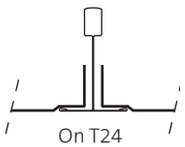
- Easy to install and compatible with all traditional T24 grids.
- A perfectly flat finish.
- Excellent handling resistance for access to the plenum.



H2

> Flush edge tile for T24

Installation according to DTU 58.1 *(see page 158 for details)*



We strongly advise installing crossrunners without overlapping to ensure a better result.

Disassembly for access to the plenum

- By simply lifting the panel in the grid.
- Possibility of a panel anti-lifting fixture by adding peripheral brackets CA113. Please contact us if you are interested in installing an access hatch.

Absorption

(see page 150 for details and α_p coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.60 to 0.85 with polythene wrapped wool absorbant depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

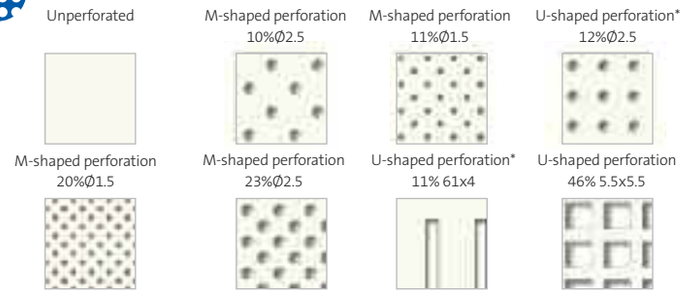
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Module dimensions	• 600 x 600 mm.
Materials	•Galvanised steel 0.5 mm thick. •Aluminum 0.6 mm thick on request.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.
Packaging	•Package of 14 tiles or 5.04 m², pallets of 28 packages or 141.12 m². •Grid not included.

Perforations on steel *(for scale illustrations: see page 144)*



** Not stocked.*
Please contact us if you would like perforations on aluminum.
All panels have an unperforated peripheral border measuring a few millimetres.

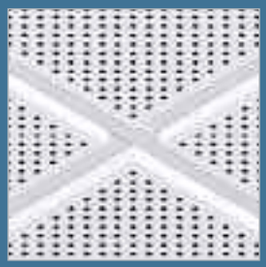
Sound absorbant insulation

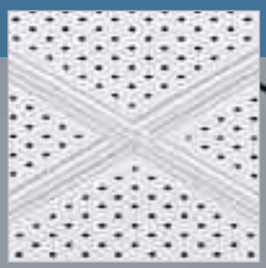
- Black acoustic fleece bonded to the back of the panel on request.
- Polythene wrapped mineral wool film to be installed on the construction site on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

H8



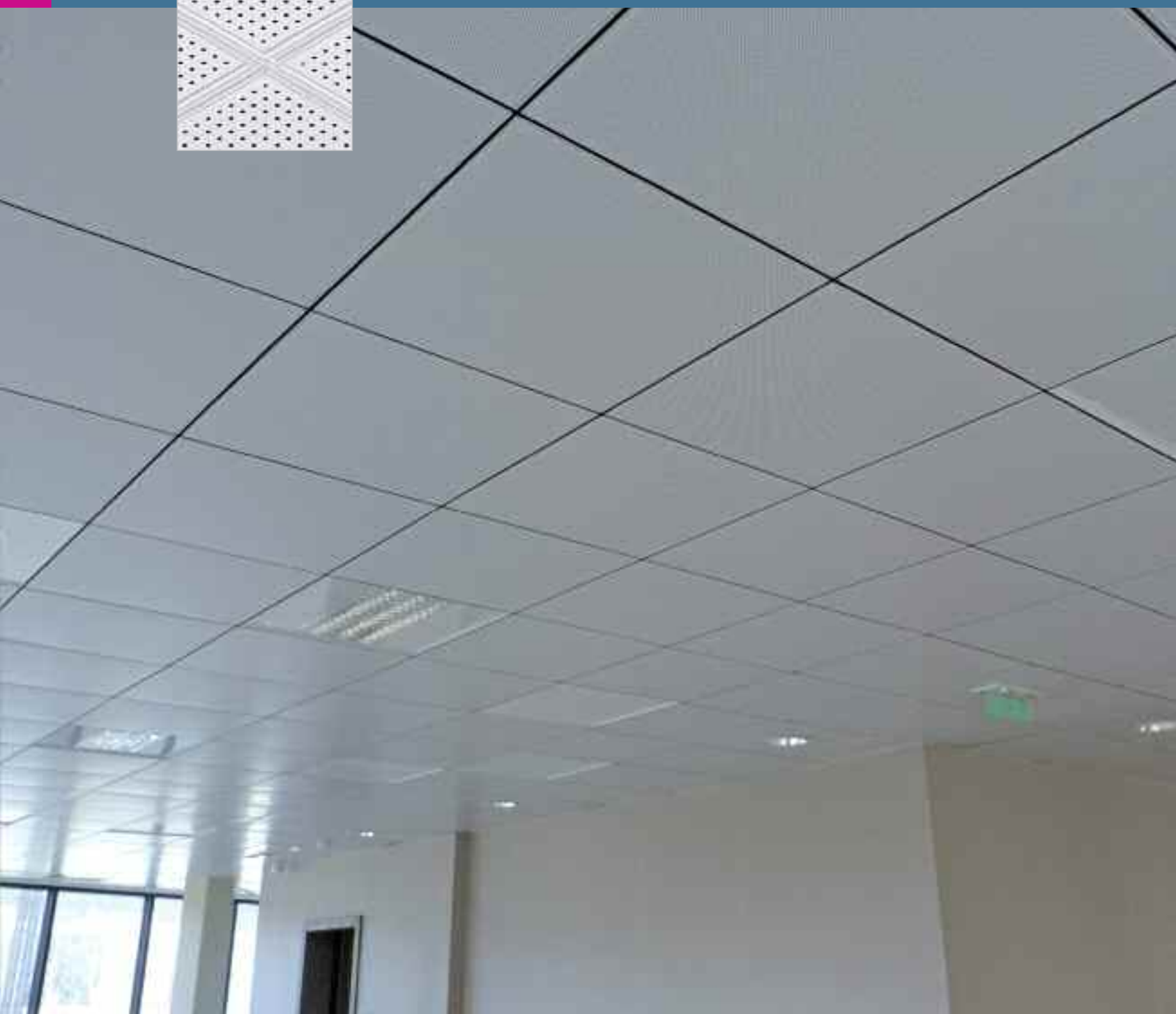


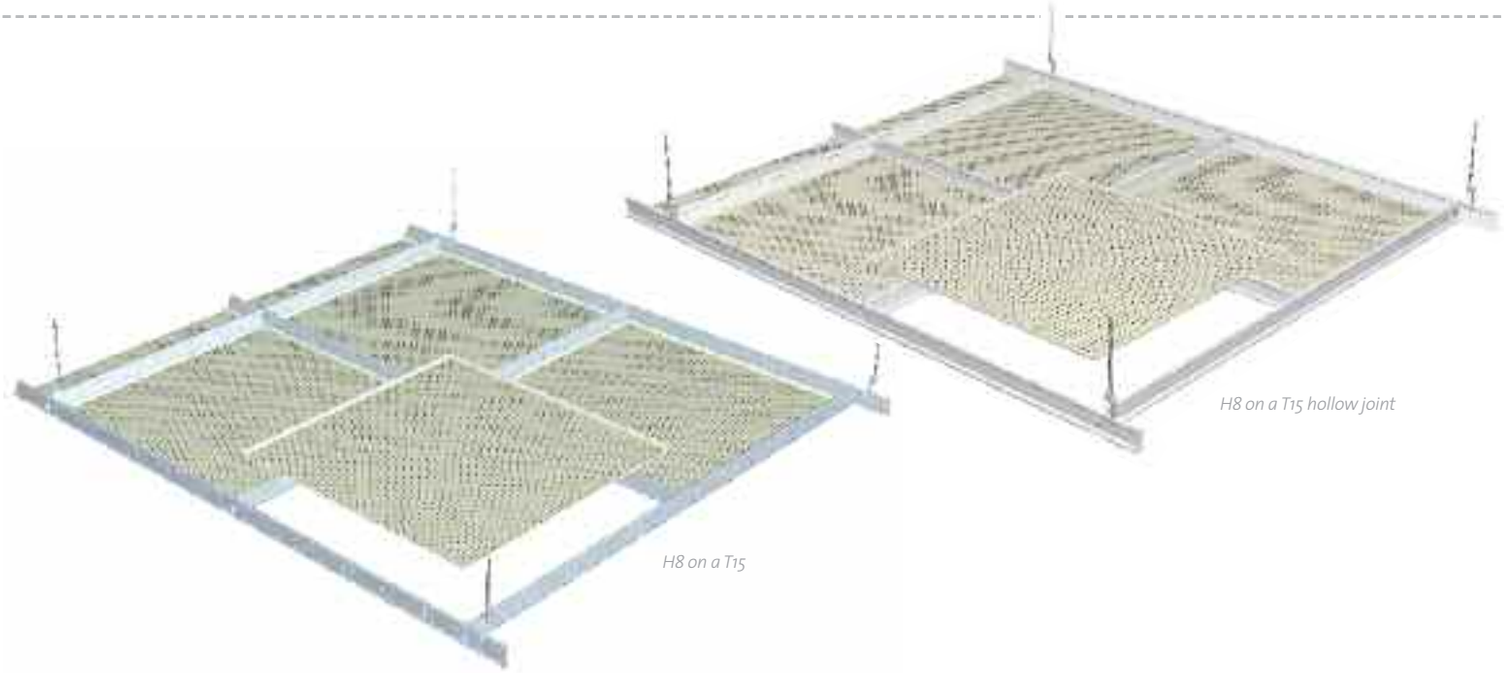
> 8 mm tegular edge tile for T15 / flush edge tile for T15 hollow joint

- Designed to be installed on a T15 or T15 hollow joint grid.
- For an 8 mm tegular effect, choose a classic T15 grid.
- For a flat ceiling effect, opt for a T15 hollow joint grid.

Product benefits

- Easy to install and compatible with all traditional T15 or T15 hollow joint grids.
- A ceiling that promotes sleek, elegant lines for discreetly highlighting the tegular effect.
- Excellent handling resistance for access to the plenum.





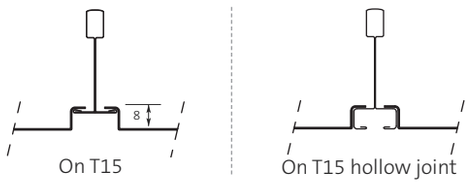
H8 on a T15 hollow joint

H8 on a T15

H8

> 8 mm tegular edge tile for T15 / Flush edge cassette for T15 hollow joint

Installation according to DTU 58.1 *(see page 158 for details)*



On T15 — On T15 hollow joint

We strongly advise installing crossrunners without overlapping to ensure a better result.

Disassembly for access to the plenum

- By simply lifting the panel in the grid.
- Possibility of a panel anti-lifting fixture by adding peripheral brackets CA113. Please contact us if you are interested in installing an access hatch.

Absorption

(see page 150 for details and α_p coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.60 to 0.85 with polythene wrapped wool absorbant depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

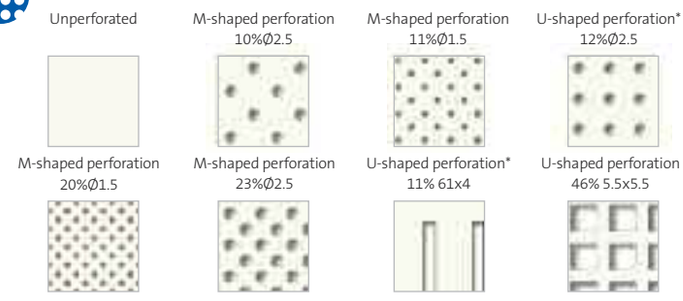
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)

Module dimensions	• 600 x 600 mm. • 600 x 1200, 675 x 675, 625 x 625 mm and other dimensions on request.
Materials	•Galvanised steel 0.5 mm thick. •Aluminum 0.6 mm thick on request.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.
Packaging	•In 600 x 600 mm: package of 14 tiles or 5.04 m², pallets of 28 packages or 141.12 m². •Grid not included.

Perforations on steel *(for scale illustrations: see page 144)*



** Not stocked.*
Please contact us if you would like perforations on aluminum.
All panels have an unperforated peripheral border measuring a few millimetres.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.
- Polythene wrapped mineral wool film to be installed on the construction site on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

PLAFOMETAL

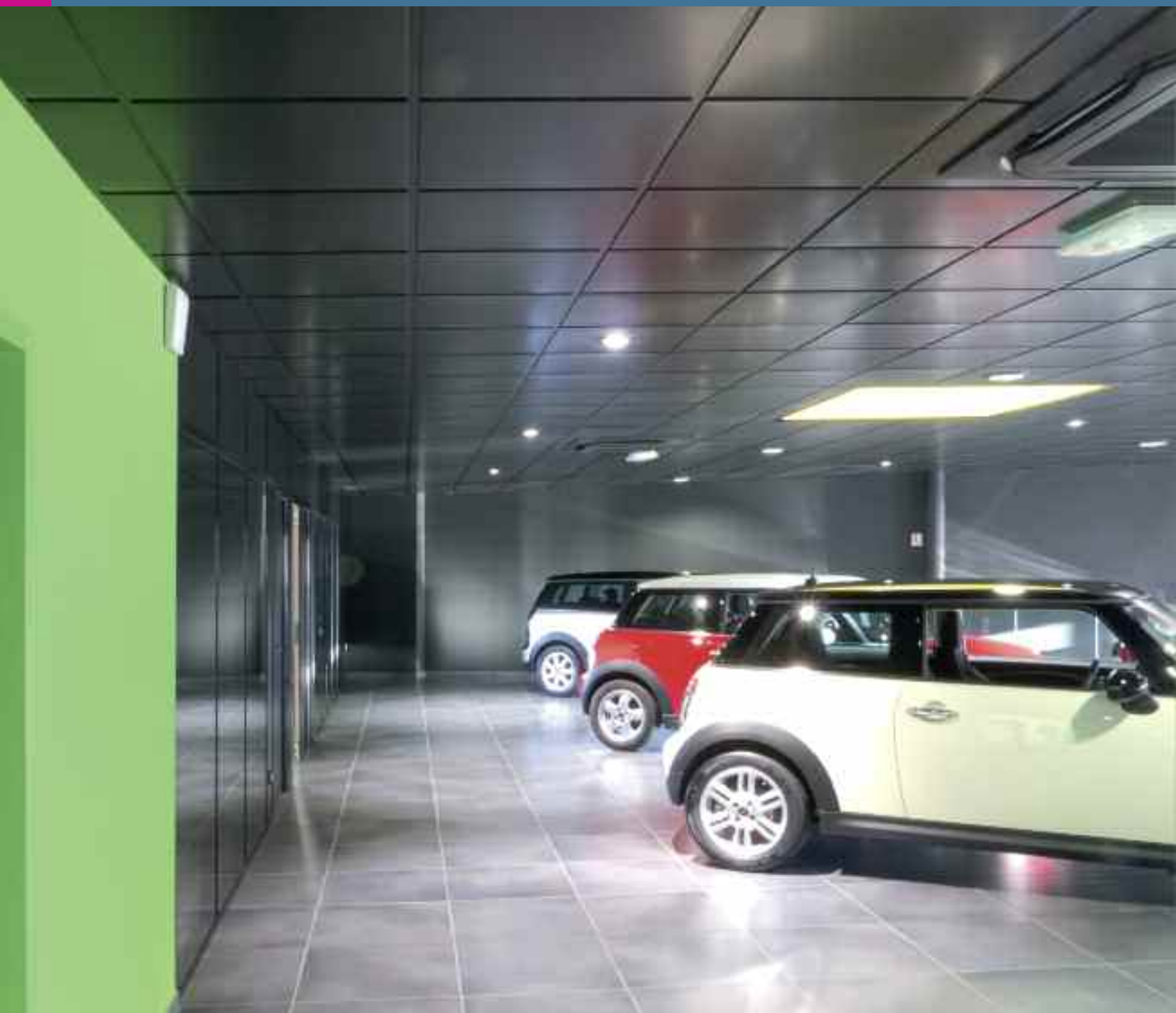
H9

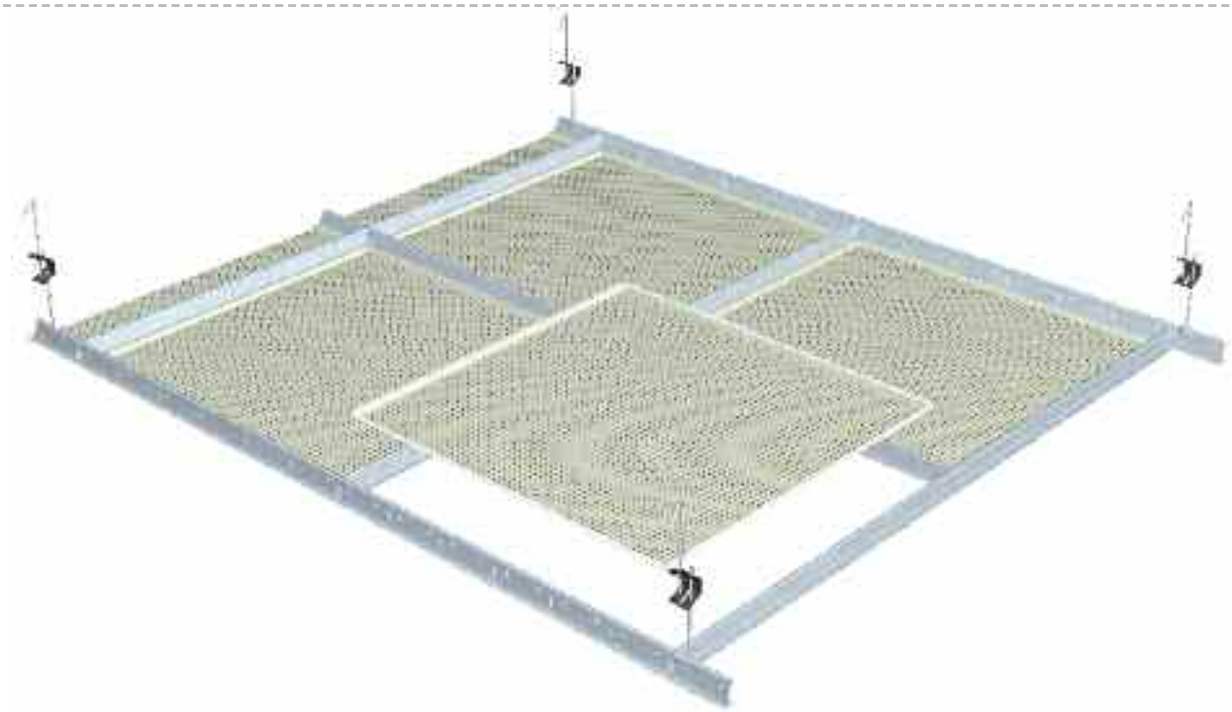
> 9 mm tegular edge tile for T24

- Designed to be installed on a T24 grid.
- For a 9 mm tegular effect.

Product benefits

- Easy to install and compatible with all traditional T24 grids.
- A ceiling for highlighting the tegular effect.
- Excellent handling resistance for access to the plenum.

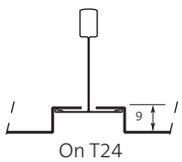




H9

> 9 mm tegular edge tile for T24

Installation according to DTU 58.1 *(see page 158 for details)*



We strongly advise installing crossrunners without overlapping to ensure a better result.

Disassembly for access to the plenum

- By simply lifting the panel in the grid.
- Possibility of a panel anti-lifting fixture by adding peripheral brackets CA113. Please contact us if you are interested in installing an access hatch.

Absorption

(see page 150 for details and α_p coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.60 to 0.85 with polythene wrapped wool absorbant depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

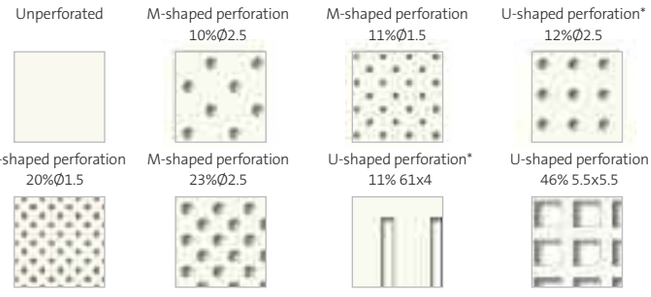
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Module dimensions	• 600 x 600 mm. • 600 x 1200, 675 x 675, 625 x 625 mm and other dimensions on request.
Materials	•Galvanised steel 0.5 mm thick. •Aluminum 0.6 mm thick on request.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.
Packaging	•In 600 x 600 mm: package of 14 tiles or 5.04 m², pallets of 28 packages or 141.12 m². •Grid not included.

Perforations on steel *(for scale illustrations: see page 144)*



** Not stocked.*
Please contact us if you would like perforations on aluminum.
All panels have an unperforated peripheral border measuring a few millimetres.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.
- Polythene wrapped mineral wool film to be installed on the construction site on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

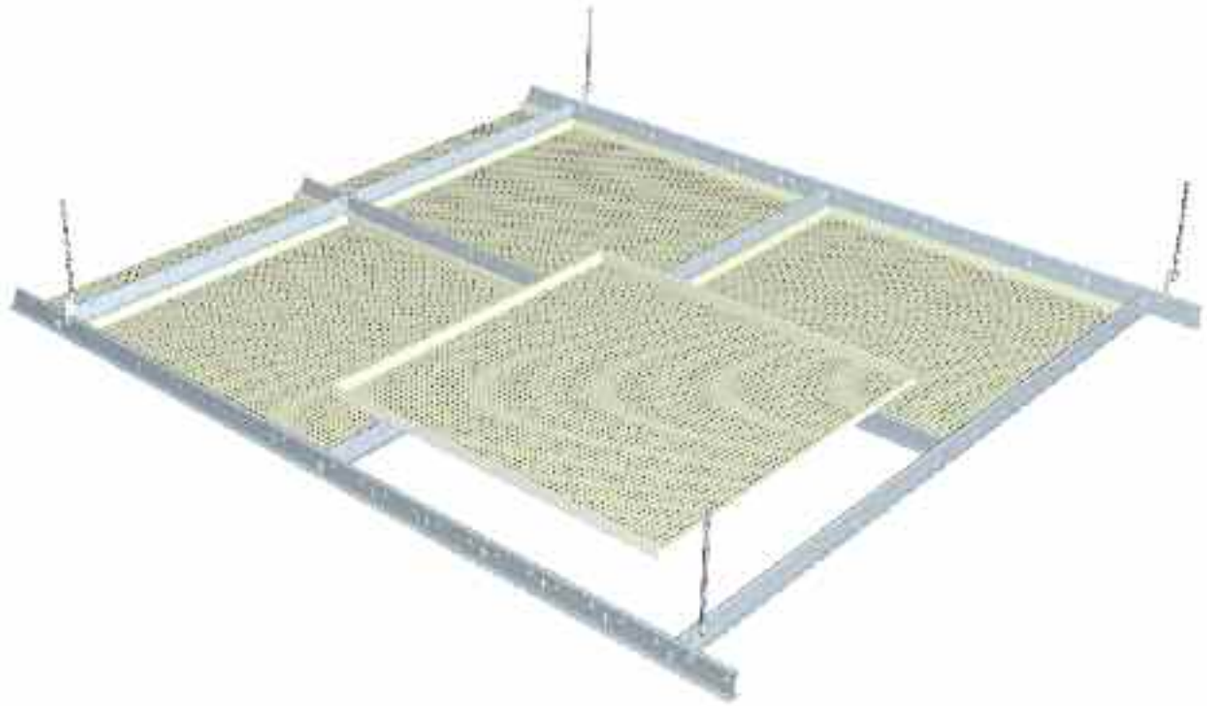
H20

> 20 mm tegular edge tile for T24

- Designed to be installed on a T24 grid.
- For a 20 mm tegular effect.

Product benefits

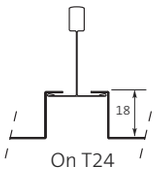
- Easy to install and compatible with all traditional T24 grids.
- A ceiling for highlighting the tegular effect.
- Excellent handling resistance for access to the plenum.



H20

> 20 mm tegular edge tile for T24

Installation according to DTU 58.1 *(see page 158 for details)*



We strongly advise installing crossrunners without overlapping to ensure a better result.

Disassembly for access to the plenum

- By simply lifting the panel in the grid.
- Possibility of a panel anti-lifting fixture by adding peripheral brackets CA113. Please contact us if you are interested in installing an access hatch.

Absorption

(see page 150 for details and α_p coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.60 to 0.85 with polythene wrapped wool absorbant depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

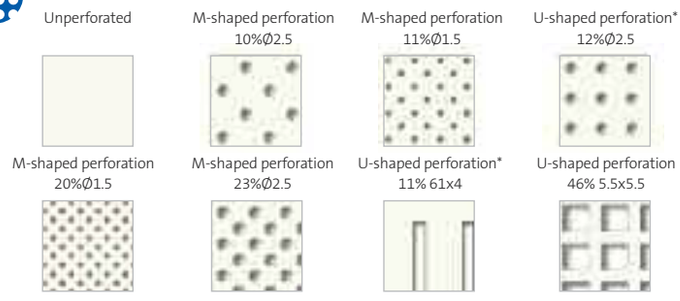
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)

Module dimensions	• 600 x 600 mm. • 600 x 1200 mm and other dimensions on request.
Materials	•Galvanised steel 0.5 mm thick. •Aluminum 0.6 mm thick on request.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.
Packaging	•In 600 x 600 mm: package of 14 tiles or 5.04 m², pallets of 18 packages or 90.22 m². •Grid not included.

Perforations on steel *(for scale illustrations: see page 144)*



** Not stocked.*
Please contact us if you would like perforations on aluminum.
All panels have an unperforated peripheral border measuring a few millimetres.

Sound absorban insulation

- Black acoustic fleece bonded to the back of the panel on request.
- Polythene wrapped mineral wool film to be installed on the construction site on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

PLAFOMETAL

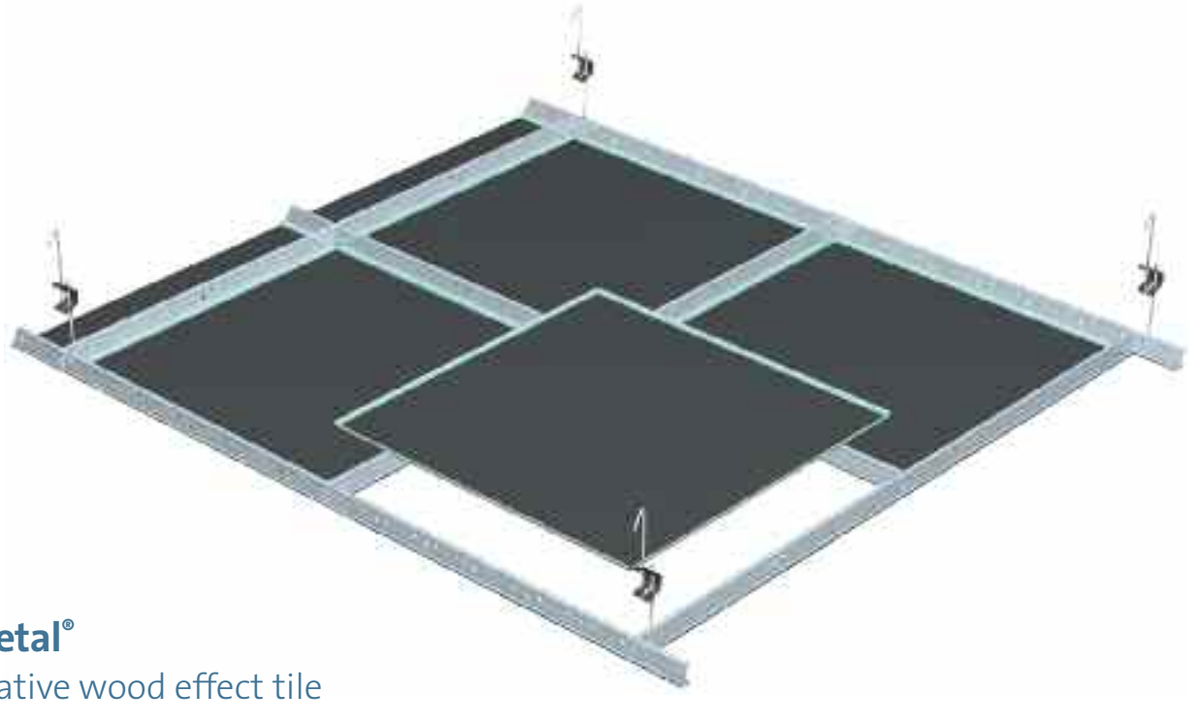
Silvametal®

> Decorative wood effect tile

- Silvametal is a steel finish panel coated with a screen-printed wood-effect PVC film.
- Available on H0 straight edge tiles for T15 and T24 grids, H8 8 mm tegular edge tiles for T15 grids, H8 8 mm flush edge tiles for T15 hollow joint grids, and H9 9 mm tegular edge tiles for T24 grids.

Product benefits

- Easy to install and compatible with all traditional T24, T15 or T15 hollow joint grids.
- Realistic rendering combining the warmth of wood with the advantages of metal.
- The tile trim has the same finish as the underside.
- The tile edges haves the same finish as the surface.
- A built-in acoustic fleece on perforated versions.
- Excellent handling resistance for access to the plenum.



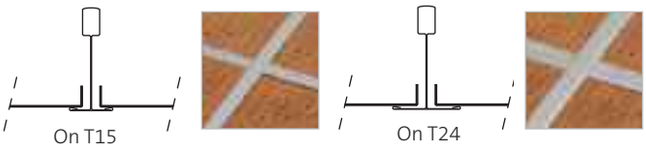
Silvametal®

> Decorative wood effect tile

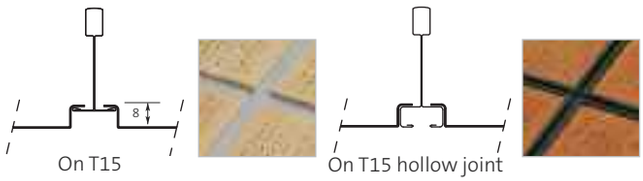
Installation according to DTU 58.1 *(see page 158 for details)*

Silvametal® is available as standard on 3 types of tile:

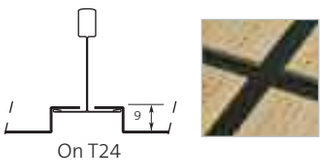
- H0 straight edge tile for T15 and T24



- H8, 8 mm tegular edge tile for T15, flush edge tile for T15 hollow joint



- H9, 9 mm tegular edge tile for T24



We strongly advise installing crossrunners without overlapping to ensure a better result.

Disassembly for access to the plenum

- By simply lifting the panel in the grid.
- Possibility of a panel anti-lifting fixture by adding peripheral brackets CA113. Please contact us if you are interested in installing an inspection hatch.

Absorption

(see page 150 for details and α_p coefficients per 1/3 octave)

- α_w from 0.5 to 0.80 with acoustic fleece depending on perforation

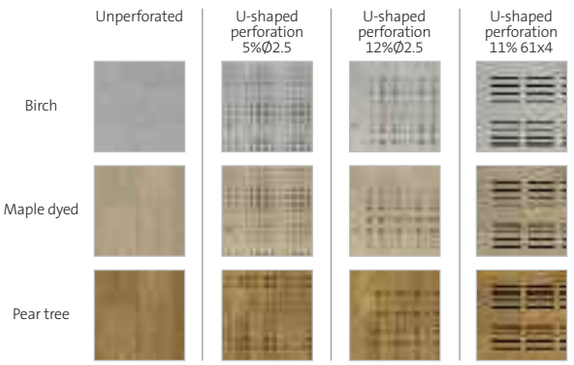
Reaction to fire *(see page 152 for details)*

- Classification pending.

Module dimensions	• 600 x 600 mm. • 600 x 1200 (except H0), 675 x 675, 625 x 625 mm and other dimensions on request.
Materials	•Galvanised steel 0.5 mm thick, coated in a wood-imitation PVC film.
Packaging	•In 600 x 600 mm: package of 14 tiles or 5.04 m². •Grid not included.

Coatings and perforations on steel

(for scale illustrations: see page 144)



Sound absorbant insulation

- Panels lined with black acoustic fleece bonded to the back of the panel.
- Polythene wrapped mineral wool film to be installed on the construction site on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

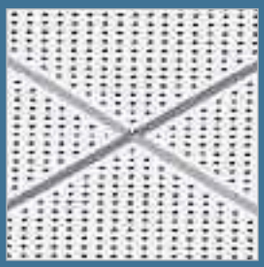
Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Monobac

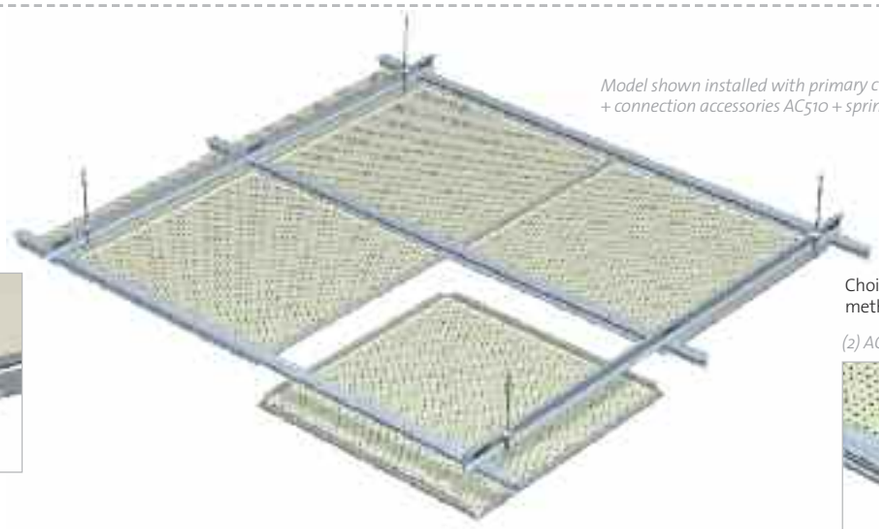
> Clip-in system, monolithic aspect

- Designed to be clipped underneath a concealed grid.
- Bevelled peripheral edges.



Product benefits

- Monolithic appearance.
- Secure access to the roof space, requiring use of a disassembly tool.
- Ideal for premises where hygiene requirements must be met.



Model shown installed with primary channel U1029 + connection accessories AC510 + springtee T D5110

Safety clip AC511

Choice of three installation methods

(1) AC21 + primary + AC510

(2) AC21 + primary + AC219

(3) AC510 directly

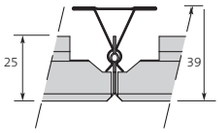
Monobac

> Clip-in system, monolithic aspect

Installation according to DTU 58.1 *(see page 158 for details)*

(1) and (2) Flanges AC21 for Ø6 threaded rod with 1200 mm axis regularity on primary profiles U1029 with 1200 mm axis regularity and connection by means of AC510 (1) or AC219 (2) of the secondary profiles T D5110 laid out transversely with 600 mm centres. Or (3) direct hanger AC510 for Ø6 threaded rod with 1200 mm axis regularity on secondary profiles T D5110 with 600 mm axis regularity.

Note: the impermeability of an unperforated ceiling can be reinforced by applying a silicone joint to the panel's bevelled edges during installation.

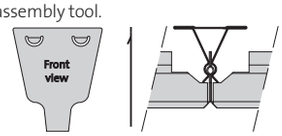


Outdoor installation *(see page 158 for details)*

- With safety bracket AC511, subject to conditions. Please contact us.

Disassembly for access to the plenum

- Unclipping at the bottom, using a specific disassembly tool.
- The ceiling can be made non-detachable by adding a safety bracket AC511 to each corner of the panel. Please contact us if you are interested in installing an access hatch.



Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Resistance to fire *(see page 154 for details)*

France

- Fire-resistant Pm8 offers fire-resistance performance of FS 1/4 h and FS 1/2 h pursuant to the test described in Appendix 1, Section 2.5 of the Regulation of 22 March 2004 and meets applicable French fire regulations for shared-use horizontal corridors inside high-rise buildings. Panels and wall angles must be installed in conformity with applicable classification reports and appendices. Please contact us.

Belgium

- Fire-resistant Pm8 offers fire-resistance performance of FS 1/2 h pursuant to the test according to the Belgian NBN 713-020 standard and meets applicable Belgian fire regulations for escape routes, areas accessible to the public and collective kitchens. Panels and wall angles must be installed in conformity with applicable classification reports and appendices. Please contact us.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ):

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

Module dimensions	• 600 x 600 mm with bevelled edges on four sides. • 600 x 1200, other dimensions on request. • Straight edges on request.
Materials	•Galvanised steel 0.5 mm thick. •Aluminum 0.6 mm thick on request.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.
Packaging	•In 600 x 600: package of 14 tiles or 5.04 m^2, pallets of 20 packages or 100.8 m^2. •Grid not included.

Perforations on steel *(for scale illustrations: see page 144)*

Unperforated

M-shaped perforation 10%Ø2.5

M-shaped perforation 11%Ø1.5

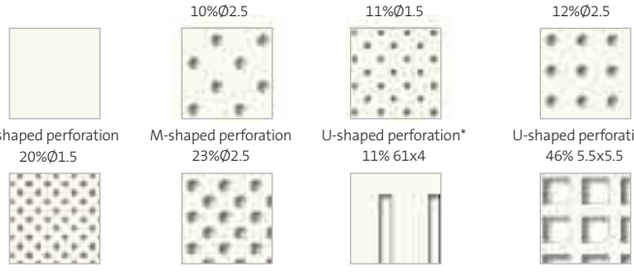
U-shaped perforation* 12%Ø2.5

M-shaped perforation 20%Ø1.5

M-shaped perforation 23%Ø2.5

U-shaped perforation* 11% 61x4

U-shaped perforation* 46% 5.5x5.5



** Not stocked. Please contact us if you would like perforations on aluminum.*
All panels have an unperforatedperipheral border measuring a few millimetres.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.
- Polythene wrapped mineral wool film to be installed on the construction site on request.

Absorption *(see page 150 for details and α_p coefficients per 1/3 octave)*

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.60 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Light reflection

CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Linear strips

Type R

Round edges with
5 or 15 mm gaps

Page 50

Type U

Straight sides and square edges
with 5, 15 or 20 mm gaps

Page 52

Linear strips

For reception areas and outdoors

Linear strips are clipped onto specific runners and can be used to create long lengths adapted to the installation site. Made of aluminum, they are very easy to cut using manual shears or a fine-tooth saw, in addition to being cost-effective and easy to install.

A directional effect in varying degrees:

> Depending on the shape of the chosen strip.
> Depending on the length of the chosen strip.
> Depending on the width of the gap.
> Depending on whether a gap cover is used at the bottom or flush, in the same or a contrasting colour.
> Depending on whether a hollow joint is present.

For a concealed plenum which can occasionally be accessed by disassembling the strips.

PLAFOMETAL BENEFITS

- Strips are cut to length in the factory, reducing the number of offcuts during installation.
- Creation of specific covers for integrating equipment.
- Colour continuity across different deliveries.
- Wide choice of finishes available (colours, gap covers, decorative fleece...).
- Strip perforation possibilities with an additional acoustic fleece.

Type F

Straight sides and square edges with a 15 mm closed hollow joint

Page 54

Type V

Vertical

Page 56

Type R

> Linear strip with round edges and 5 or 15 mm gaps

- Designed to be clipped onto a concealed grid.
- The strip has rounded edges.
- The open gap between strips can be 5 or 15 mm.
- Inter-strip profiles in the same or different colour can be used to conceal the 15 mm gaps or create a closed hollow joint.

Product benefits

- Cost-effective and easy to install.
- Can be used to create long lengths.
- A softer directional effect.
- Available in a wide range of colours.
- Can be installed beneath an exterior canopy under certain conditions.

Model shown: 85R with flush joint cover strip on PPA 35-15 runners

Cutout cover

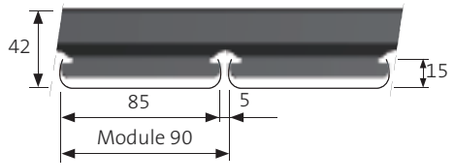
Type R

> Linear strip with round edges and 5 or 15 mm gaps

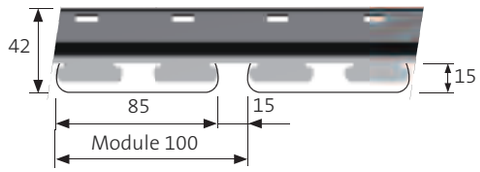
Installation according to DTU 58.1 *(see page 158 for details)*

- Hangers with 1200 mm axis regularity starting 300 mm from the wall, and runners with 1200 mm axis regularity with a 300 mm strip overhang.
- Perimeter channel trims recommended.
- Strip connection splice plates possible.

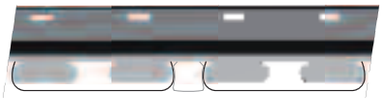
5 mm gap: with PPA 85-5 profile runner (interval of 90 mm)



15 mm gap: with PPA 35-15 profile runner (interval of 50 mm)



- With flush gap cover



- With gap cover at the bottom for a closed hollow joint effect

Outdoor installation *(see page 158 for details)*

- Outdoor installation requires particular precautions. It is important to determine the degree of wind and corrosion exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m axis regularity between hangers and runners. Also ensure one hanger for every two has a "anti-lifting" clip at least. We advise using washers between the threaded rod and the runner. The gap cover at the bottom should be left out. The contractor is responsible for submitting its plan to the client for approval. Please contact us for more information.

Linear strip dimensions	• Width: 85 mm. • Length on request (min. 900 – advised max. 6000 mm). • Height: 15 mm. • Round edges.
Materials	•Aluminum 0.5 or 0.6 mm thick.
Colours and finishes	•White polyester prepainted for inside or outside •Metallic grey polyester prepainted for inside or outside •Please contact us for other colours or brushed, anodised and Silvametal® solutions.

Perforations

- Perforations possible. Please contact us

Decorative / sound absorbant insulation

- Black acoustic fleece bonded to the back of the strips on request.
- Black mineral wool to be installed above the strips on request.
- Decorative black fleece to be installed above the strips on request.

Cut outs and integrations

- On-site cut outs.
- Specific covers for spotlights, sprinklers or other fittings on one or more strip modules on request.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted, brushed and anodised solutions.
- Classification pending for Silvametal® wood effect.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ):

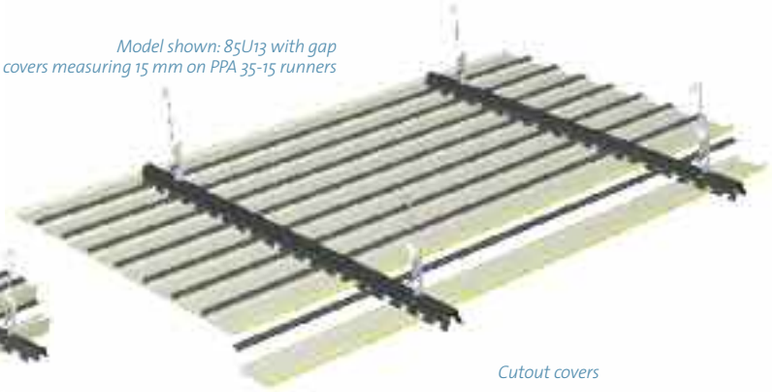
Type U

> Linear strip with straight sides and square edges with 5, 15 or 20

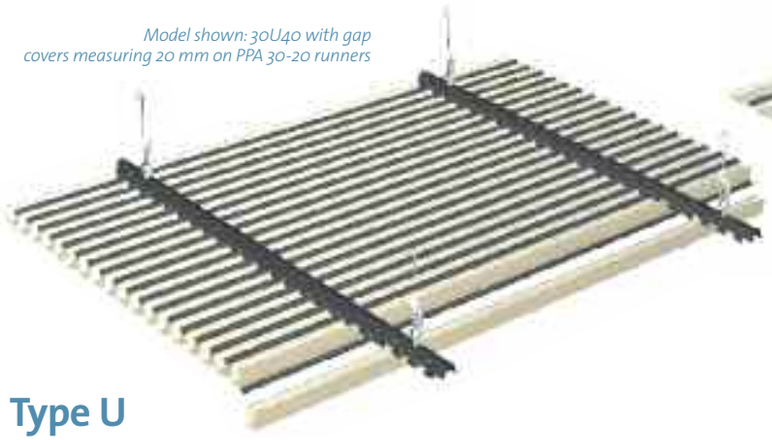
- Designed to be clipped onto a concealed grid.
- The strip has straight sides and square edges.
- The open gap between strips can be 5, 15 or 20 mm
- Inter-strip profiles in the same or different colour can be used to create a 15 or 20 mm closed hollow joint.

Product benefits

- Cost-effective and easy to install.
- Can be used to create long lengths.
- Reinforced directional effect.
- Available in a wide range of widths, heights and colours.
- Can be installed beneath an exterior canopy under certain conditions.

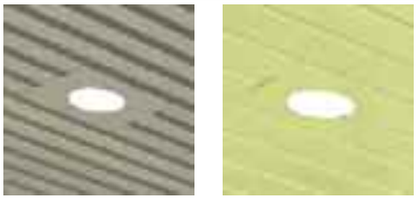


Model shown: 85U13 with gap covers measuring 15 mm on PPA 35-15 runners



Model shown: 30U40 with gap covers measuring 20 mm on PPA 30-20 runners

Cutout covers



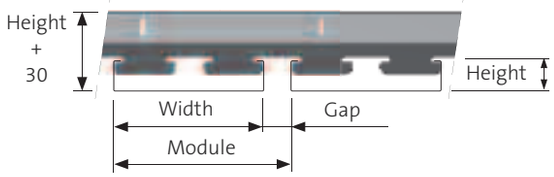
Type U

> Linear strip with straight sides and square edges with 5, 15 or 20 mm gaps

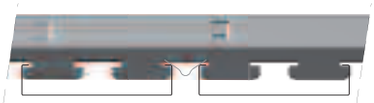
Installation according to DTU 58.1 *(see page 158 for details)*

- Hangers with 1200 mm axis regularity starting 300 mm from the wall, and runners with 1200 mm axis regularity with a 300 mm strip overhang.
- Perimeter channel trims recommended.
- Strip connection splice plates possible.

5, 15 or 20 mm gap: see the dimensions provided in the table



Closed hollow joint effect: with gap cover measuring 15 or 20 mm at the bottom



Outdoor installation *(see page 158 for details)*

- Outdoor installation requires particular precautions. It is important to determine the degree of wind and corrosion exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m axis regularity between hangers and runners. Also ensure one hanger for every two has a "anti-lifting" clip at least. We advise using washers between the threaded rod and the runner. The gap cover at the bottom should be left out. The contractor is responsible for submitting its plan to the client for approval. Please contact us for more information.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted, brushed and anodised solutions.
- Classification pending for Silvametal® wood effect.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)

Dimensions

Gap	Linear strip		Module	Carrier	
	Width	Height		Reference	Pitch
5	85	13 or 20	90	PPA 85-5	90
15	85	13 or 20	100	PPA 35-15	50
	135	20	150		
	185		200		
20	30	20 or 40	50	PPA 30-20	50
	80	15	100		
	130		150		
	180		200		

- Strip reference = width U height (e.g.: 85 U 13).
- Length on request (min. 900 – advised max. 6000 mm).
- Straight sides and square edges.

Materials

- Aluminum 0.5 or 0.6 mm thick.
- Steel possible. Please contact us.

Colours and finishes

- White polyester prepainted for inside or outside.
- Metallic grey polyester prepainted for inside or outside.
- Please contact us for other colours or brushed, anodised and Silvametal® solutions.

Shock resistance

- Fortilux model in shock-resistant steel. Please contact us.

Perforations

- Perforations possible. Please contact us

Decorative / sound absorbant insulation

- Black acoustic fleece bonded to the back of the strips on request.
- Black mineral wool to be installed above the strips on request.
- Decorative black fleece to be installed above the strips on request.

Cut outs and integrations

- On-site cut outs.
- Specific covers for spotlights, sprinklers or other fittings on one or more strip modules on request.

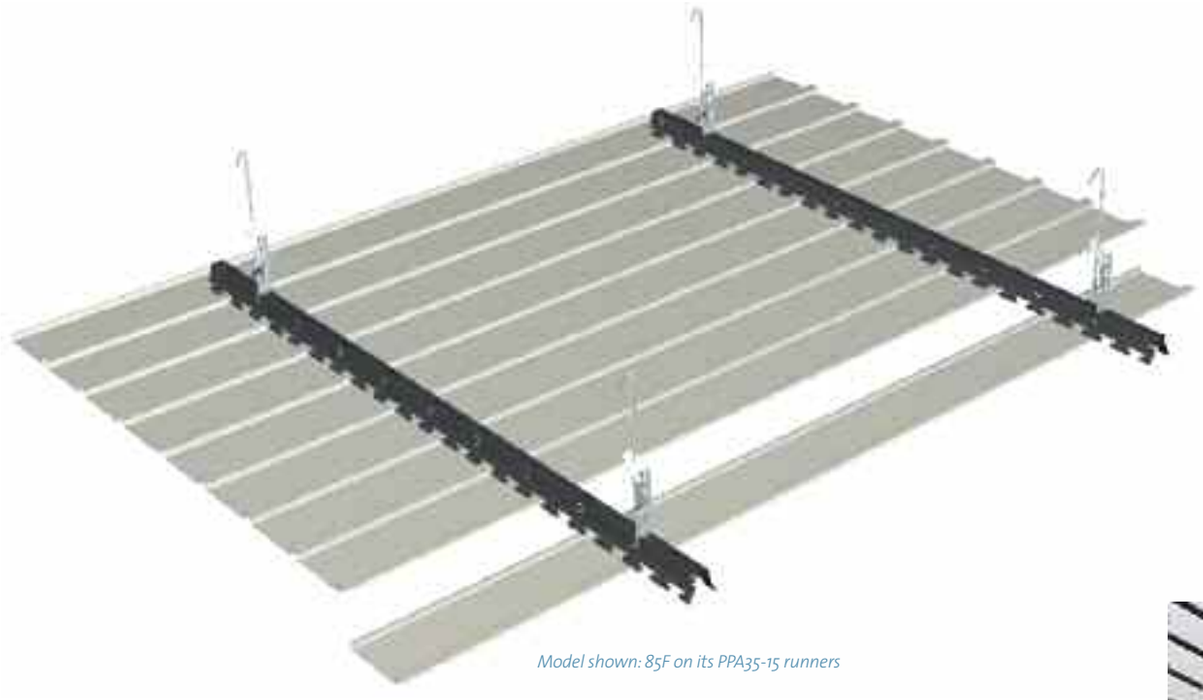
Type F

> Linear strip with straight sides and square edges, forming a 15 mm closed hollow joint

- Designed to be clipped onto a concealed grid.
- The strip has straight sides and square edges, forming a 15 mm closed hollow joint between the strips.

Product benefits

- Cost-effective and easy to install.
- Can be used to create long lengths.
- A directional and graphic effect.
- Available in a wide range of colours.
- Can be installed beneath an exterior canopy under certain conditions.



Model shown: 85F on its PPA35-15 runners

Cutout cover

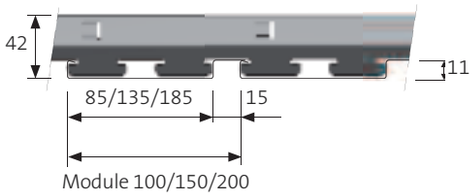
Type F

> Linear strip with straight sides and square edges, forming a 15 mm closed hollow joint

Installation according to DTU 58.1 *(see page 158 for details)*

- Hangers with 1200 mm axis regularity starting 300 mm from the wall, and runners with 1200 mm axis regularity with a 300 mm strip overhang.
- Perimeter channel trims recommended.
- Strip connection splice plates possible.

15 mm closed hollow joint with PPA 35-15 profile runner (interval of 50 mm)



Outdoor installation *(see page 158 for details)*

- Outdoor installation requires particular precautions. It is important to determine the degree of wind and corrosion exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m axis regularity between hangers and runners. Also ensure one hanger for every two has a "anti-lifting" clip at least. We advise using washers between the threaded rod and the runner. The gap cover at the bottom should be left out. The contractor is responsible for submitting its plan to the client for approval. Please contact us for more information.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted, brushed and anodised solutions.
- Classification pending for Silvametal® wood effect.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): 

Strip dimensions	• Widths: 100 (85+15), 150 (135+15) and 200 (185+15) mm. • Length on request (min. 900 – advised max. 6000 mm). • Height: 11 mm. • Straight sides and square edges.
Materials	•Aluminum 0.5 or 0.6 mm thick.
Colours and finishes	•White polyester prepainted for inside or outside. •Metallic grey polyester prepainted for inside or outside. •Please contact us for other colours or brushed, anodised and Silvametal® solutions.

Perforations

- Perforations possible. Please contact us

Decorative / sound absorbant insulation

- Black acoustic fleece bonded to the back of the strips on request.
- Black mineral wool to be installed above the strips on request.
- Decorative black fleece to be installed above the strips on request.

Cut outs and integrations

- On-site cut outs.
- Specific covers for spotlights, sprinklers or other fittings on one or more strip modules on request.

Type V

> Vertical strip

- Designed to be clipped onto a concealed grid.
- The strip is suspended vertically with an open gap of 100, 150 or 200 mm.

Product benefits

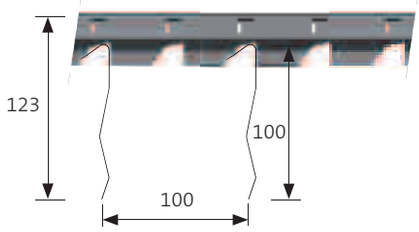
- Cost-effective and easy to install.
- Can be used to create long lengths.
- The assembly creates an impression of space, by forming a screen that indirectly conceals the plenum, while allowing light to circulate.
- Enables active fire protection systems to operate.
- Ideal when the available space of the premises has to be maintained.

Model shown: 100V on its PPV runners

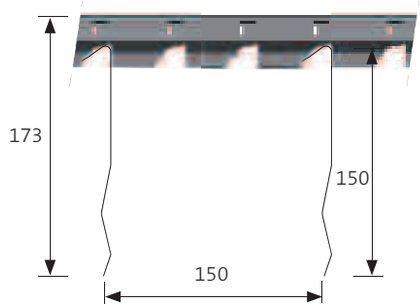
Type V
> Vertical strip

Installation according to DTU 58.1 *(see page 158 for details)*
- Hangers with 1500 mm axis regularity starting 300 mm from the wall, and PPV runners with 1500 mm axis regularity with a 300 mm strip overhang.

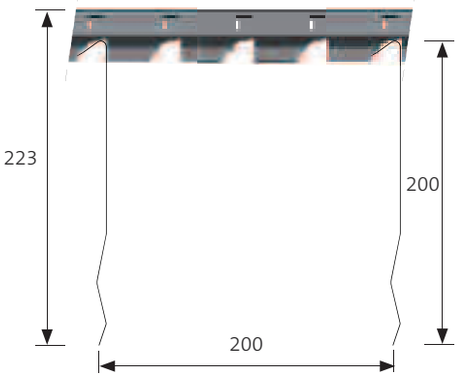
Height: 100 mm, recommended maximum gap: 100 mm



Height: 150 mm, recommended maximum gap: 150 mm



Height: 200 mm, recommended maximum gap: 200 mm



Important: If sprinklers are installed above the suspended ceiling, the total open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area according to Section 12.4.14 of NF EN 12845:2004.
In practice, an open area greater than 80% is often required for ceiling fixtures.

Strip dimensions	• Heights: 100, 150 and 200 mm. • Length on request (min. 1000 – advised max. 7000 mm).
Open area percentage	• Greater than 80% from a gap of 100 mm.
Materials	•Aluminum 0.5 or 0.6 mm thick.
Colours and finishes	•White polyester prepainted on both surfaces. •Metallic grey polyester prepainted on both surfaces.

Reaction to fire *(see page 152 for details)*
- A1.

Environment and health
- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): A+

Linear panels

Modulbac JFC

Abutting sides and square edges

Page 60

Modulbac F

Abutting sides and bevelled edges

Page 62

Modulbac JC15

Straight sides and bevelled edges with 15 mm closed hollow joint

Page 64

Linear panels

For reception areas and outdoors

Clipped linear panels can be made in large long, which reduces the number of visible joints.

A directional effect in varying degrees:

> Clean lines
> Controlled installation costs
> A directional effect in varying degrees depending on the detail of the edges chosen (square, bevelled, abutting or hollow)
> Installation underneath an exterior canopy, subject to specific installation conditions

PLAFOMETAL BENEFITS

- Panels are cut to length in the factory, reducing the number of offcuts during installation.
- Factory-made cut outs for integrating equipment
- Colour continuity across different deliveries
- Large choice of perforations in our range and others available on request
- Additional black acoustic fleece on request
- Absorption coefficient α_w between 0.55 and 1

Panebac J

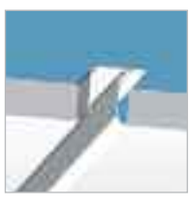
Abutting sides and square edges

Page 66

Panebac JC3

Straight sides and square edges with 3 mm closed hollow joint

Page 68



Panebac JC15

Straight sides and square edges with 15 mm closed hollow joint

Page 70

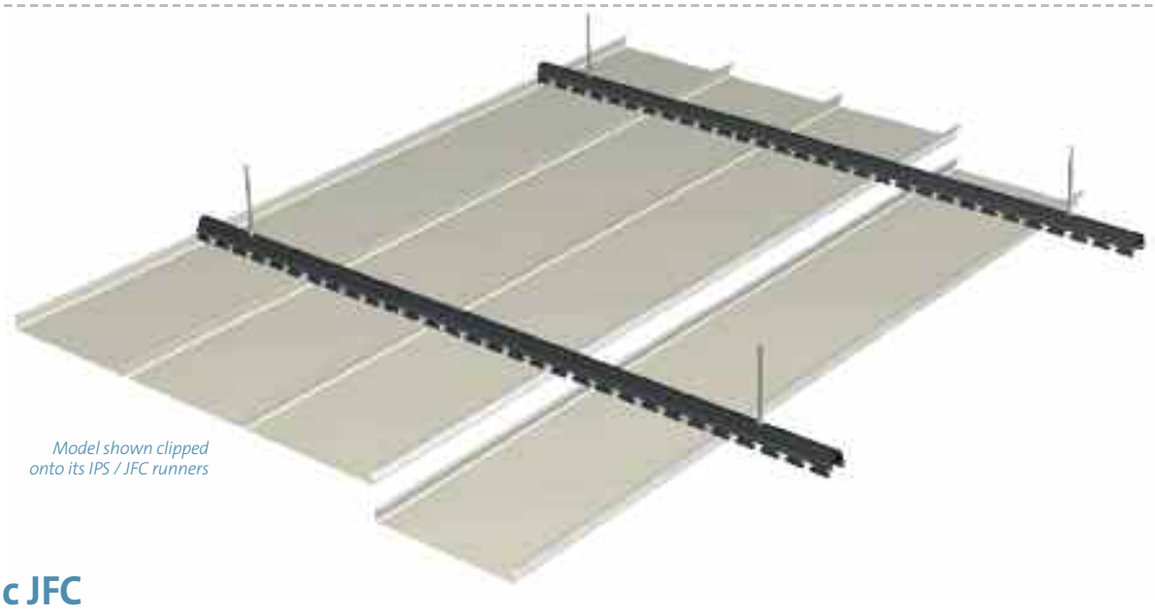
Modulbac JFC

> Clipped linear panel with abutting sides and square edges

- Designed to be clipped onto a concealed grid.
- The panel has abutting sides, square edges and open sides.

Product benefits

- Can be used to create long lengths.
- A sleek style by reducing the number of visible joints.
- A discreet linear appearance.
- Controlled installation costs.
- Can be installed beneath an exterior canopy under certain conditions.



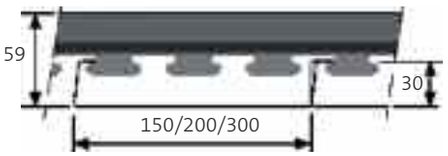
Model shown clipped onto its IPS / JFC runners

Modulbac JFC

> Clipped linear panel with abutting sides and square edges

Installation according to DTU 58.1 *(see page 158 for details)*

- Hangers with 1400 mm axis regularity and IPS / JFC runners with 1400 mm axis regularity
- Perimeter channel trims recommended.



Outdoor installation *(see page 158 for details)*

- Outdoor installation requires particular precautions. It is important to determine the degree of wind and corrosion exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m axis regularity between hangers and runners. Also ensure one hanger for every two has a "anti-lifting" clip at least. We advise using washers between the threaded rod and the runner. The contractor is responsible for submitting its plan to the client for approval. Please contact us for more information.

Absorption

(see page 150 for details and ap coefficient per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece
- A2,s1,d0 for the powder postlacquered solutions with or without acoustic fleece

Light reflection

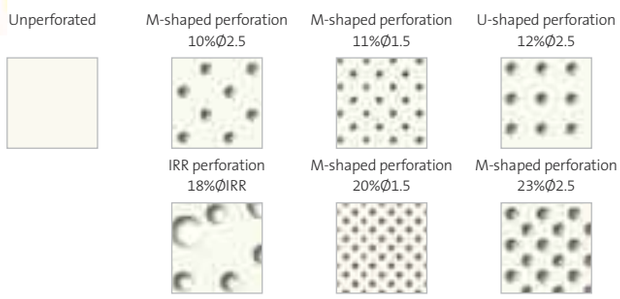
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): A+

Panel dimensions	• Widths: 150, 200, 300 mm. • Length on request (min. 900 – advised max. 6000 mm). • Height: 30 mm. • Square edges. • Max. self-supporting capacity: 2800 mm for a width of 300 mm.
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted for inside or outside. •RAL 9006 metallic grey polyester prepainted for inside or outside. •Polyester powder coat: 180 RAL colours on request.

Perforations on steel *(for scale illustrations: see page 144)*



Please contact us if you would like perforations on aluminum.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations

- On-site cut outs.

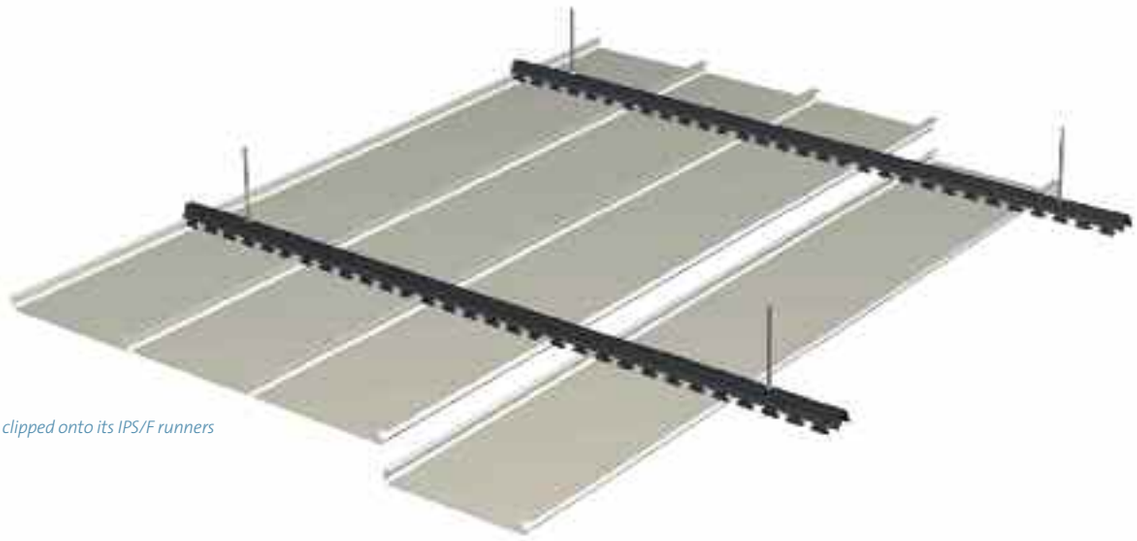
Modulbac F

> Clipped linear panel with abutting sides and bevelled edges

- Designed to be clipped onto a concealed grid.
- The panel has abutting sides, bevelled edges and open sides.

Product benefits

- Can be used to create long lengths.
- A sleek style by reducing the number of visible joints.
- A reinforced linear appearance.
- Controlled installation costs.
- Can be installed beneath an exterior canopy under certain conditions.



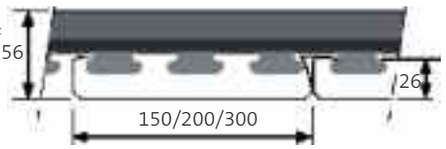
Model shown clipped onto its IPS/F runners

Modulbac F

> Clipped linear panel with abutting sides and bevelled edges

Installation according to DTU 58.1 *(see page 158 for details)*

- Hangers with 1400 mm axis regularity and IPS / F runners with 1400 mm axis regularity
- Perimeter channel trims recommended.



Outdoor installation *(see page 158 for details)*

- Outdoor installation requires particular precautions. It is important to determine the degree of wind and corrosion exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m axis regularity between hangers and runners. Also ensure one hanger for every two has a "anti-lifting" clip at least. We advise using washers between the threaded rod and the runner. The contractor is responsible for submitting its plan to the client for approval. Please contact us for more information.

Absorption

(see page 150 for details and ap coefficient per 1/3 octave)

- α_W 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_W 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_W up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire (see page 152 for details)

- A1 for the prepainted solutions with or without acoustic fleece
- A2,s1,d0 for the powder postlacquered solutions with or without acoustic fleece

Light reflection

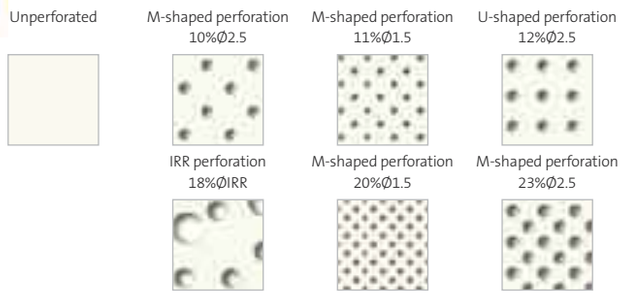
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): A+

Panel dimensions	• Widths: 150, 200, 300 mm. • Length on request (min. 900 – advised max. 6000 mm). • Height: 26 mm. • Square edges. • Max. self-supporting capacity: 2800 mm for a width of 300 mm.
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted for inside or outside. •RAL 9006 metallic grey polyester prepainted for inside or outside. •Polyester powder coat: 180 RAL colours on request.

Perforations on steel *(for scale illustrations: see page 144)*



Please contact us if you would like perforations on aluminum.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations

- On-site cut outs.

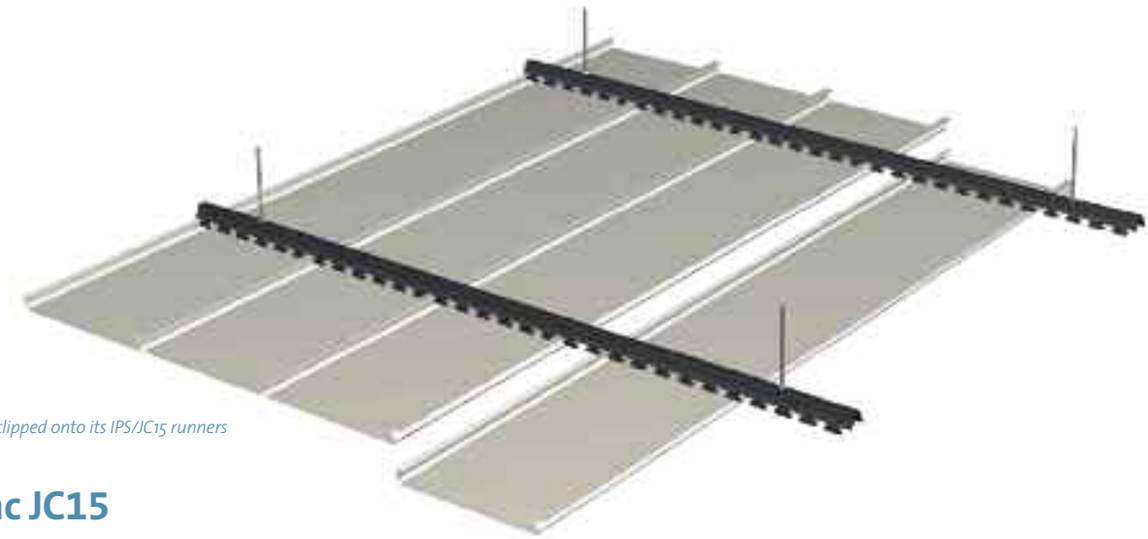
Modulbac JC15

> Clipped linear panel with straight sides and bevelled edges, forming a 15 mm closed hollow joint

- Designed to be clipped onto a concealed grid.
- The panel has straight sides and bevelled edges, forming a 15 mm closed hollow joint.

Product benefits

- Can be used to create long lengths.
- A sleek style by reducing the number of visible joints.
- A pronounced linear appearance.
- Controlled installation costs.
- Can be installed beneath an exterior canopy under certain conditions.



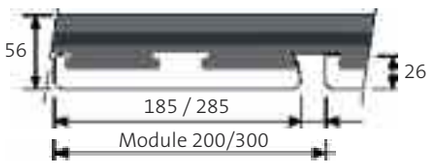
Model shown clipped onto its IPS/JC15 runners

Modulbac JC15

> Clipped linear panel with straight sides and bevelled edges, forming a 15 mm closed hollow joint

Installation according to DTU 58.1 *(see page 158 for details)*

- Hangers with 1400 mm axis regularity and IPS / JC15 runners with 1400 mm axis regularity
- Perimeter channel trims recommended.



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Outdoor installation *(see page 158 for details)*

- Outdoor installation requires particular precautions. It is important to determine the degree of wind and corrosion exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m axis regularity between hangers and runners. Also ensure one hanger for every two has a "anti-lifting" clip at least. We advise using washers between the threaded rod and the runner. The contractor is responsible for submitting its plan to the client for approval. Please contact us for more information.

Absorption

(see page 150 for details and ap coefficient per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece
- A2,s1,d0 for the powder postlacquered solutions with or without acoustic fleece

Light reflection

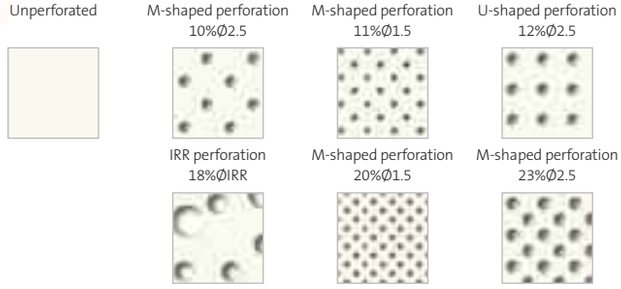
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): A+

Panel dimensions	• Width of modules (panel + hollow joint): 200 and 300 mm. • Length on request (min. 900 – advised max. 6000 mm). • Height: 26 mm. • Square edges. • Max. self-supporting capacity: 2800 mm for a width of 300 mm.
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted for inside or outside. •RAL 9006 metallic grey polyester prepainted for inside or outside. •Polyester powder coat: 180 RAL colours on request.

Perforations on steel *(for scale illustrations: see page 144)*



Please contact us if you would like perforations on aluminum.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations

- On-site cut outs.

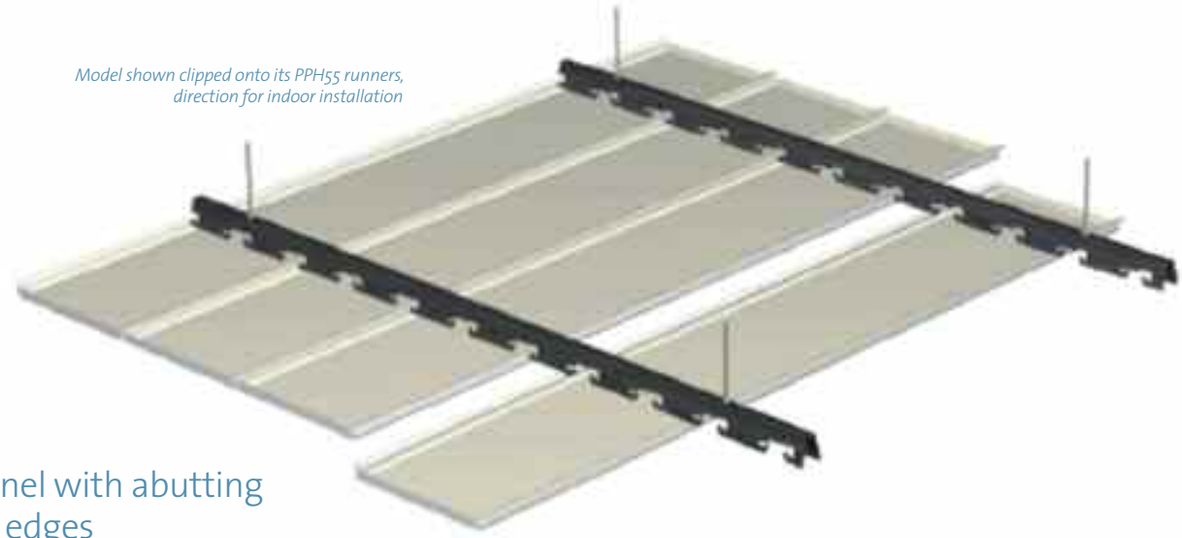
Panebac J

> Clipped linear panel with abutting sides and square edges

- Designed to be clipped onto a concealed grid.
- The panel has abutting sides and square edges.

Product benefits

- Can be used to create long lengths.
- A sleek style by reducing the number of visible joints.
- A discreet linear appearance.
- Good lateral rigidity thanks to the folded ends
- Controlled installation costs.
- Can be installed beneath an exterior canopy under certain conditions.



Model shown clipped onto its PPH55 runners, direction for indoor installation

Panebac J

> Clipped linear panel with abutting sides and square edges

Installation according to DTU 58.1 *(see page 158 for details)*

- Hangers with 1400 mm axis regularity and PPH55 runners with 1400 mm axis regularity

Outdoor installation *(see page 158 for details)*

- Install the panel in the runner notches provided for outdoor installation. Outdoor installation requires particular precautions. It is important to determine the degree of wind and corrosion exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m axis regularity between hangers and runners. Also ensure one hanger for every two has a "anti-lifting" clip at least. We advise using washers between the threaded rod and the runner. The contractor is responsible for submitting its plan to the client for approval. Please contact us for more information.

Absorption

(see page 150 for details and ap coefficient per 1/3 octave)

- α_W 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_W 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_W up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece
- A2,s1,d0 for the powder postlacquered solutions with or without acoustic fleece

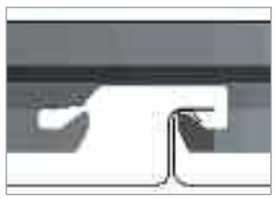
Light reflection

CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

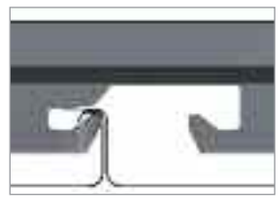
Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ):

Indoor installation

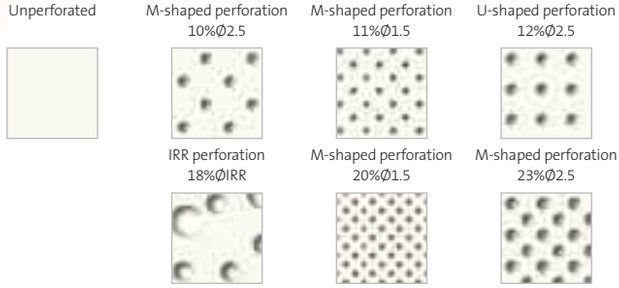


Outdoor installation



Panel dimensions	• Widths: 150, 200, 300 mm. • Length on request (min. 900 – advised max. 6000 mm). • Height: 30 mm. • Square edges. • Max. self-supporting capacity: 2800 mm for a width of 300 mm.
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted for inside or outside. •RAL 9006 metallic grey polyester prepainted for inside or outside. •Polyester powder coat: 180 RAL colours on request.

Perforations on steel *(for scale illustrations: see page 144)*



Please contact us if you would like perforations on aluminum.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations

- Cut in the factory under certain conditions.

PLAFOMETAL

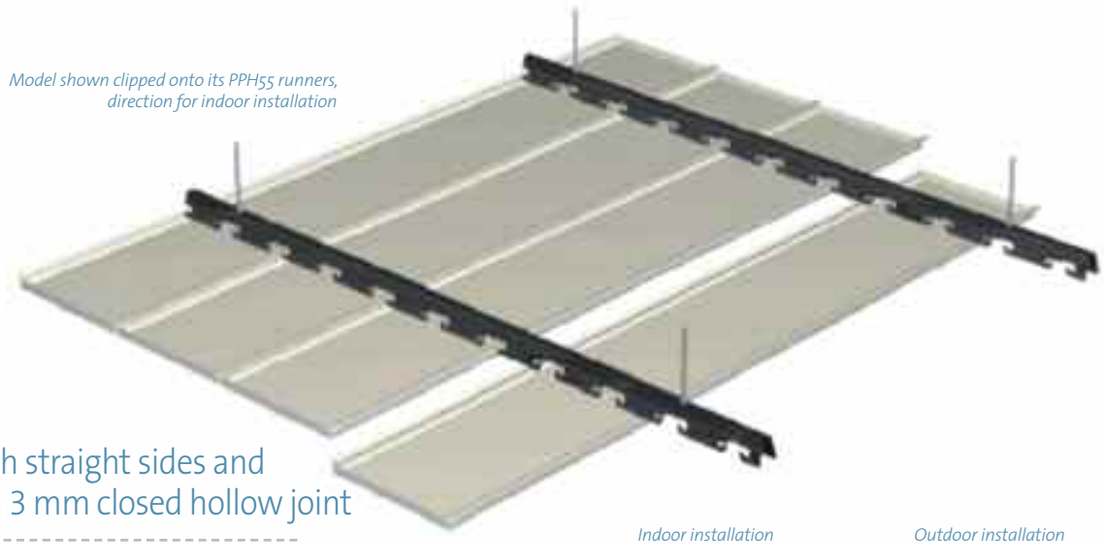
Panebac JC3

> Clipped linear panel with straight sides and square edges, forming a 3 mm closed hollow joint

- Designed to be clipped onto a concealed grid.
- The panel has straight sides and square edges, forming a 3 mm closed hollow joint.

Product benefits

- Can be used to create long lengths.
- A sleek style by reducing the number of visible joints.
- A reinforced linear appearance.
- Good lateral rigidity thanks to the folded ends.
- Controlled installation costs.
- Can be installed beneath an exterior canopy under certain conditions.



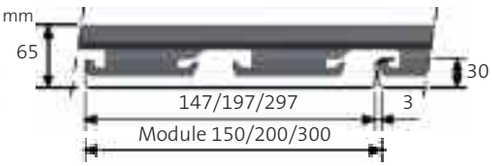
Model shown clipped onto its PPH55 runners, direction for indoor installation

Panebac JC3

> Clipped linear panel with straight sides and square edges, forming a 3 mm closed hollow joint

Installation according to DTU 58.1 *(see page 158 for details)*

- Hangers with 1400 mm axis regularity and PPH55 runners with 1400 mm axis regularity



Outdoor installation *(see page 158 for details)*

- Install the panel in the runner notches provided for outdoor installation. Outdoor installation requires particular precautions. It is important to determine the degree of wind and corrosion exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m axis regularity between hangers and runners. Also ensure one hanger for every two has a "anti-lifting" clip at least. We advise using washers between the threaded rod and the runner. The contractor is responsible for submitting its plan to the client for approval. Please contact us for more information.

Absorption

(see page 150 for details and ap coefficient per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece
- A2,s1,d0 for the powder postlacquered solutions with or without acoustic fleece

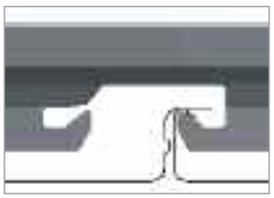
Light reflection

CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ):

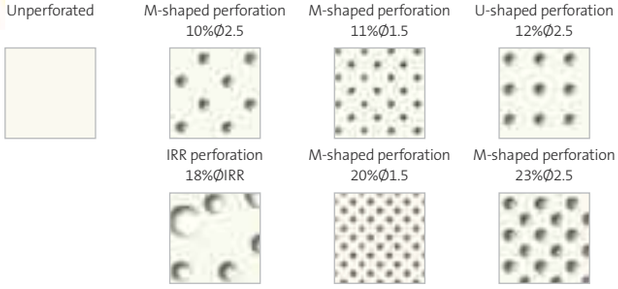
Indoor installation



Outdoor installation

Panel dimensions	• Width of modules (panel + hollow joint): 150, 200 and 300 mm. • Length on request (min. 900 – advised max. 6000 mm). • Height: 30 mm. • Square edges. • Max. self-supporting capacity: 2800 mm for a width of 300 mm.
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted for inside or outside. •RAL 9006 metallic grey polyester prepainted for inside or outside. •Polyester powder coat: 180 RAL colours on request.

Perforations on steel *(for scale illustrations: see page 144)*



Please contact us if you would like perforations on aluminum.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations

- Cut in the factory under certain conditions.

PLAFOMETAL

Panebac JC15

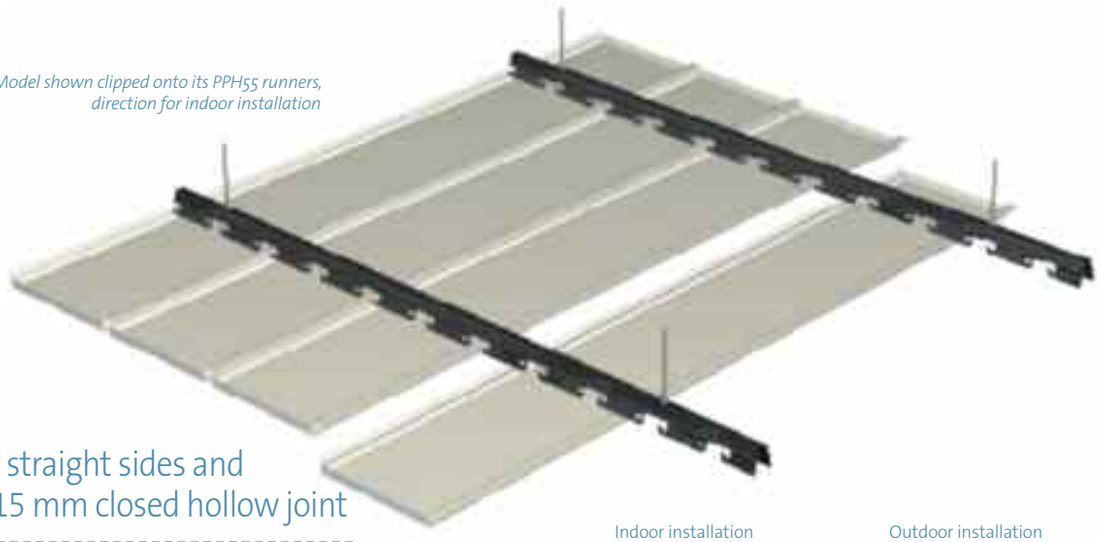
> Clipped linear panel with straight sides and square edges, forming a 15 mm closed hollow joint

- Designed to be clipped onto a concealed grid.
- The panel has straight sides and square edges, forming a 15 mm closed hollow joint.

Product benefits

- Can be used to create long lengths.
- A sleek style by reducing the number of visible joints.
- A marked linear appearance.
- Good lateral rigidity thanks to the folded ends.
- Controlled installation costs.
- Can be installed beneath an exterior canopy under certain conditions.

Model shown clipped onto its PPH55 runners, direction for indoor installation

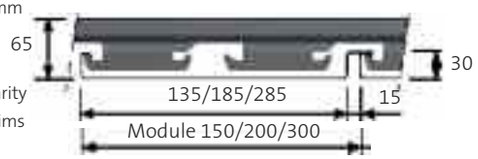


Panebac JC15

> Clipped linear panel with straight sides and square edges, forming a 15 mm closed hollow joint

Installation according to DTU 58.1 *(see page 158 for details)*

- Hangers with 1400 mm axis regularity and PPH55 runners with 1400 mm axis regularity
- Perimeter channel trims recommended.



Outdoor installation *(see page 158 for details)*

- Install the panel in the runner notches provided for outdoor installation. Outdoor installation requires particular precautions. It is important to determine the degree of wind and corrosion exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m axis regularity between hangers and runners. Also ensure one hanger for every two has a "anti-lifting" clip at least. We advise using washers between the threaded rod and the runner. The contractor is responsible for submitting its plan to the client for approval. Please contact us for more information.

Absorption

(see page 150 for details and ap coefficient per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece
- A2,s1,d0 for the powder postlacquered solutions with or without acoustic fleece

Light reflection

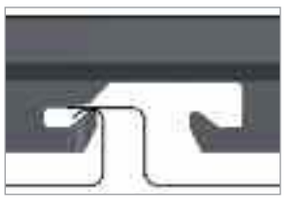
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ):

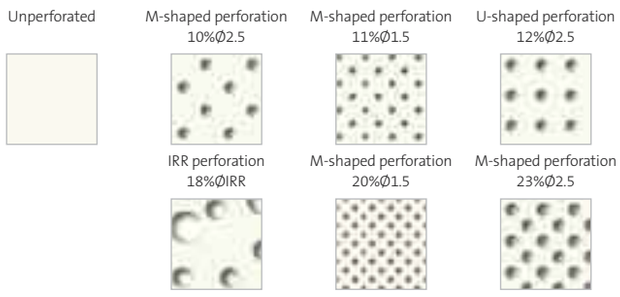
Indoor installation

Outdoor installation



Panel dimensions	• Width of modules (panel + hollow joint): 150, 200 and 300 mm. • Length on request (min. 900 – advised max. 6000 mm). • Height: 30 mm. • Square edges. • Max. self-supporting capacity: 2800 mm for a width of 300 mm.
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.6 or 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted for inside or outside. •RAL 9006 metallic grey polyester prepainted for inside or outside. •Polyester powder coat: 180 RAL colours on request.

Perforations on steel *(for scale illustrations: see page 144)*



Please contact us if you would like perforations on aluminum.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations

- Cut in the factory under certain conditions.

PLAFOMETAL

Gallery of the Centre Pompidou-Metz © Shigeru Ban Architects Europe and Jean de Gastines Architectes, with Philip Gumuchdjian for designing the competition's winning project / Metz Métropole / Centre Pompidou-Metz / Photos Olivier H. Dancy.

Cost-effective elements

Grilum

Double skin
with integrated grid

Page 74

Grilam i

Linear-effect double skin
with integrated grid

Page 76

Removable elements

Grilax

Framed double skin for
T15

Page 78

Grilam X

Framed linear-effect
double skin
for T15

Page 80

Open cell ceiling

For halls, commercial areas, areas accessible to the public

Open cell ceiling create an impression of space and light, in addition to indirectly concealing the plenum space. They enable light to circulate and active fire protection systems to operate subject to meshing. They are laid on an integrated grid or on a visible T15 grid. Open cell ceiling can also be made to swing down.

On an integrated grid:

The grid disappears from view to give the impression of a ceiling created from a single element. Panels can occasionally be removed.

On a visible T15 grid:

Panels are made with a frame, which conceals the core of the T grid so that it blends in with the ceiling assembly. Panels can easily be removed by simply lifting up the panel.

Swing-down version:

Panels are fixed on specific runners, which enable them to swing down. This prevents them from being removed and placed on the ground, thus minimising any damage caused by poor handling.

PLAFOMETAL BENEFITS

- Wide choice of square and rectangular cells.
- Customised panels available.
- Large choice of colours in the RAL range.
- Anodised finishes upon request.
- Colour continuity across different deliveries.
- Factory-made accessories, such as concealed spots or specific edge and suspension profiles.

Monoline

Single skin for T15 or T24

Page 82

Swing-down elements

Grilook

Swing-down double skin on concealed grid

Page 84

Grilam B

Linear-effect swing-down double skin on concealed grid

Page 86

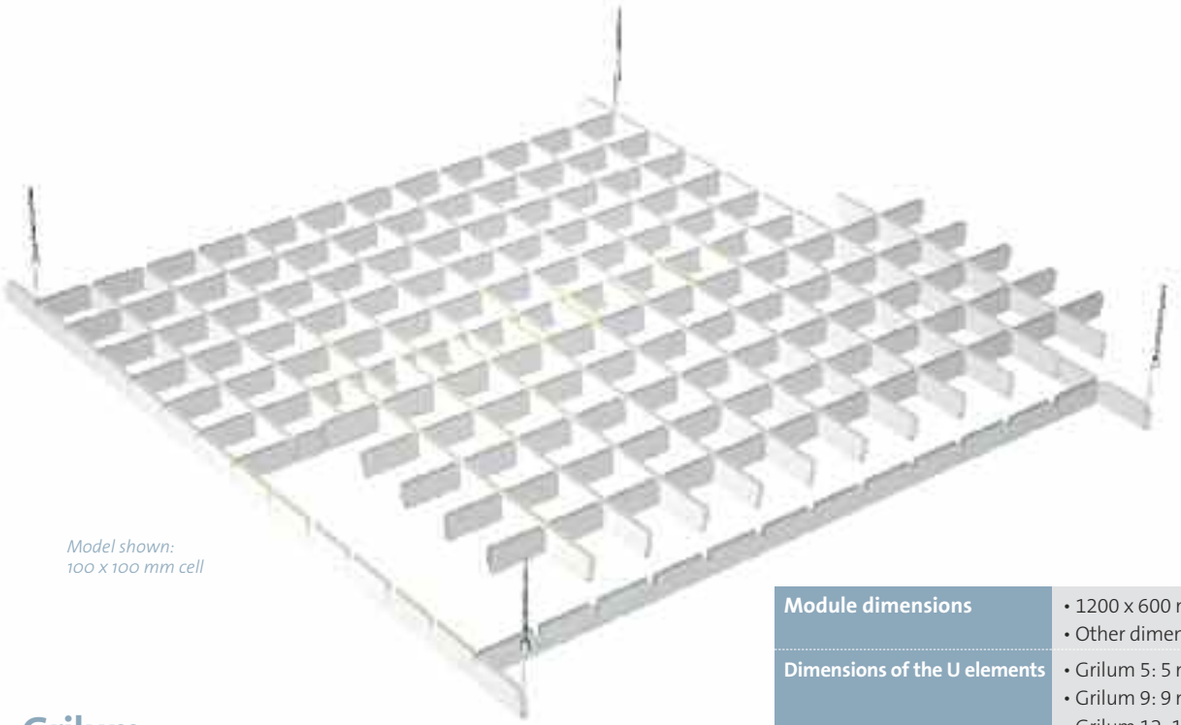
Grilum

> Double-skin open cell ceiling with an integrated grid

- The grid is created in the same U profiles as the cellular panel.
- Gives the ceiling a cellular effect.

Product benefits

- Creates an impression of space and light, in addition to indirectly concealing the plenum space.
- Enables active fire protection systems to operate depending on cells dimensions.
- The grid disappears from view to give the impression of a ceiling created from a single element.
- Panels can occasionally be removed.
- A cost-effective open cell ceiling solution.



Model shown:
100 x 100 mm cell

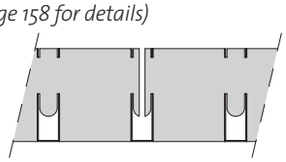
Slot-in support

Grilum

> Double-skin grilles with an integrated grid

Installation according to DTU *(see page 158 for details)*

Hangers with 1200 mm axis regularity, U-shaped runners with 1200 mm axis regularity and U-shaped crossrunners with 600 mm axis regularity.



Important:
If sprinklers are inserted above the suspended open cell ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area according to Section 12.4.14 of EN 12845:2004.
In practice, an open area greater than 80% is often required for ceiling fixtures.

Reaction to fire *(see page 152 for details)*

- A1.

Perforations

- Perforation possible on the sides of the U elements. Please contact us.

Sound absorbant insulation

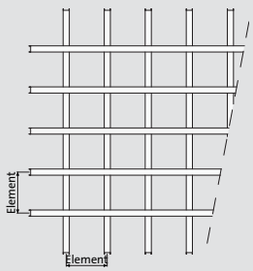
- Please contact us.

Cut outs and integrations

- Slot-in supports for spots, sprinklers or other fittings upon request.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)

Module dimensions	• 1200 x 600 mm. • Other dimensions upon request.
Dimensions of the U elements	• Grilum 5: 5 mm wide, 43 mm high. • Grilum 9: 9 mm wide, 40 mm high. • Grilum 12: 12 mm wide, 40, 50 or 80 mm high.
Cells dimensions	• Square or rectangular with intervals of 50, 60, 66.6, 75, 86, 100, 120, 150 or 200 mm.
Open area percentages	• Depending on the width of the U elements and cells dimensions. Please contact us.
Lengths of the U profiles	• 2400 or 3000 mm for the runners. • 1200 mm for the crossrunners.
From stock	• Grilum 9, 40 mm high, in 100 x 100 mm cells with an open area greater than 80%.
Diagram of the cells and elements	 Cells  U profiles and elements
Materials	•Aluminum 0.4 mm thick.
Colours and finishes	•White polyester prepainted. •Metallic grey polyester prepainted. •Black polyester prepainted. •Polyester prepainted in other colours depending on the quantity.
Packaging	•Kit in several packages, including the panels and the needed quantities of crossrunners, runners, hangers for Ø6 threaded rods and runner couplings. •Grilum 9 from stock: package of 7.2 m^2 or 10 panels measuring 1200 x 600 mm.

Grilam i

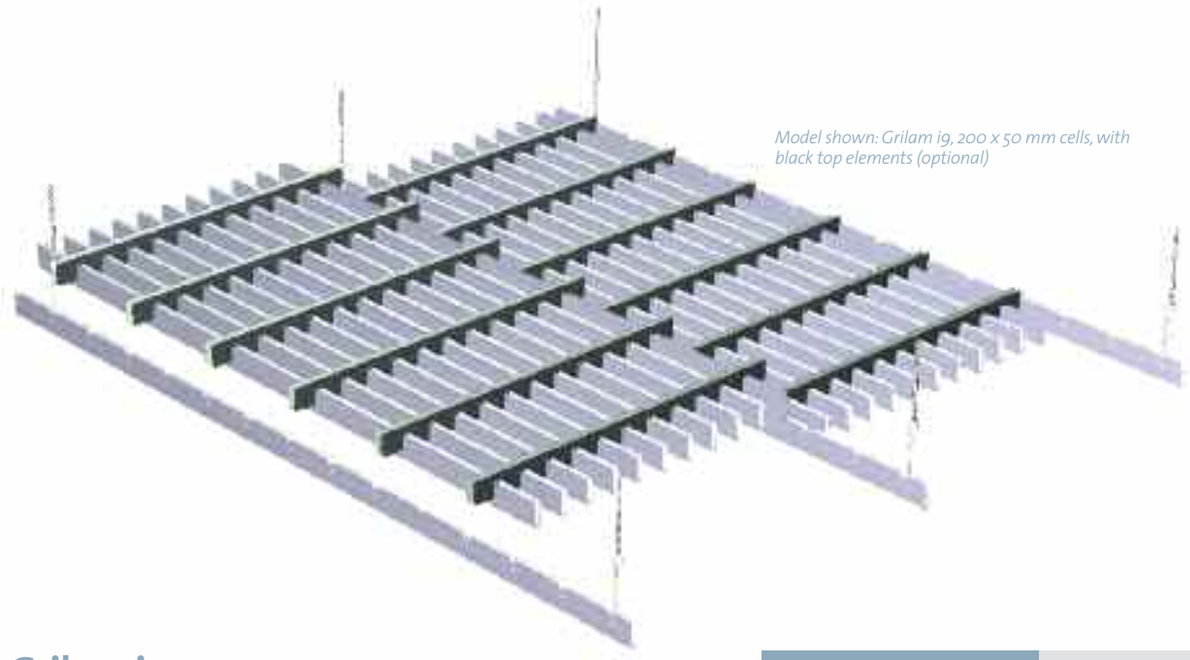
> Linear-effect double-skin open cell ceiling with an integrated grid

- The grid is created in the same U profiles as the cellular panel.
- Gives the ceiling a linear effect shifting up U cross-elements.

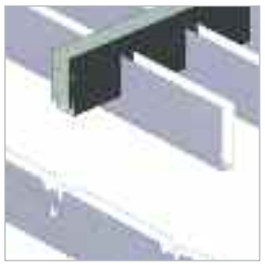
Product benefits

- Creates an impression of space and light, in addition to indirectly concealing the plenum space.
- Enables active fire protection networks to operate depending on cells dimensions.
- The grid disappears from view to give the impression of a ceiling created from a single element.
- Panels can occasionally be removed.
- A cost-effective linear-effect solution.

Gallery of the Centre Pompidou-Metz © Shigeru Ban Architects Europe and Jean de Gastines Architectes, with Philip Gumuchdjian for designing the competition's winning project / Metz Métropole / Centre Pompidou-Metz / Photos Olivier H. Dancy.



Model shown: Grilam i9, 200 x 50 mm cells, with black top elements (optional)



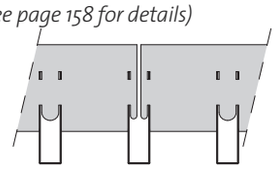
Slot-in support

Grilam i

> Linear-effect double-skin open cell ceiling with an integrated grid

Installation according to DTU 58.1 *(see page 158 for details)*

Hangers with 1200 mm axis regularity and U-shaped runners with 600 mm axis regularity.



Important:
If sprinklers are inserted above the suspended open cell ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area according to Section 12.4.14 of EN 12845:2004.
In practice, an open area greater than 80% is often required for ceiling fixtures.

Reaction to fire *(see page 152 for details)*

- A1.

Perforations

- Perforation possible on the sides of the U elements. Please contact us.

Sound absorbant insulation

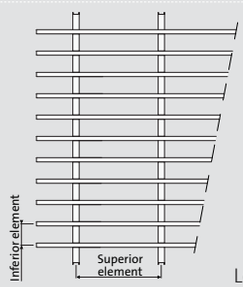
- Please contact us.

Cut outs and integrations

- Slot-in supports for spots, sprinklers or other fittings upon request.

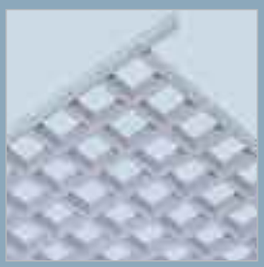
Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): A+

Module dimensions	• 1200 x 600 mm. • Other dimensions upon request.
Dimensions of elements with 15 mm-wide upper U sections for all models	• Grilam i5: lower U section 5 mm wide and 43 mm high. • Grilam i9: lower U section 9 mm wide and 40 mm high. • Grilam i10: lower U section 10 mm wide and 40 mm high.
Cells dimensions	• Rectangular, with intervals greater than 200 or 300 mm by intervals less than 50, 60, 66,6, 75, 86 or 100 mm.
Open area percentages	• Greater than 70% for all cells in all the models • Greater than 80% for all cells in the Grilam i5, from the 200 x 66.6 mm cells for the Grilam i9 and from the 200 x 75 mm for the Grilam i10.
Length of the U runners	• 2400 or 3000 mm
Diagram of the cells and elements	 Cells  Lower U profiles and elements
Materials	•Aluminum 0.4 mm thick.
Colours and finishes	•White polyester prepainted. •Metallic grey polyester prepainted. •Black polyester prepainted. •Polyester prepainted in other colours depending on the quantity.
Packaging	•Kit in several packages, including the open cell ceiling panels and the needed quantities of runners, hangers for Ø6 threaded rods and runner couplings.

Grilax

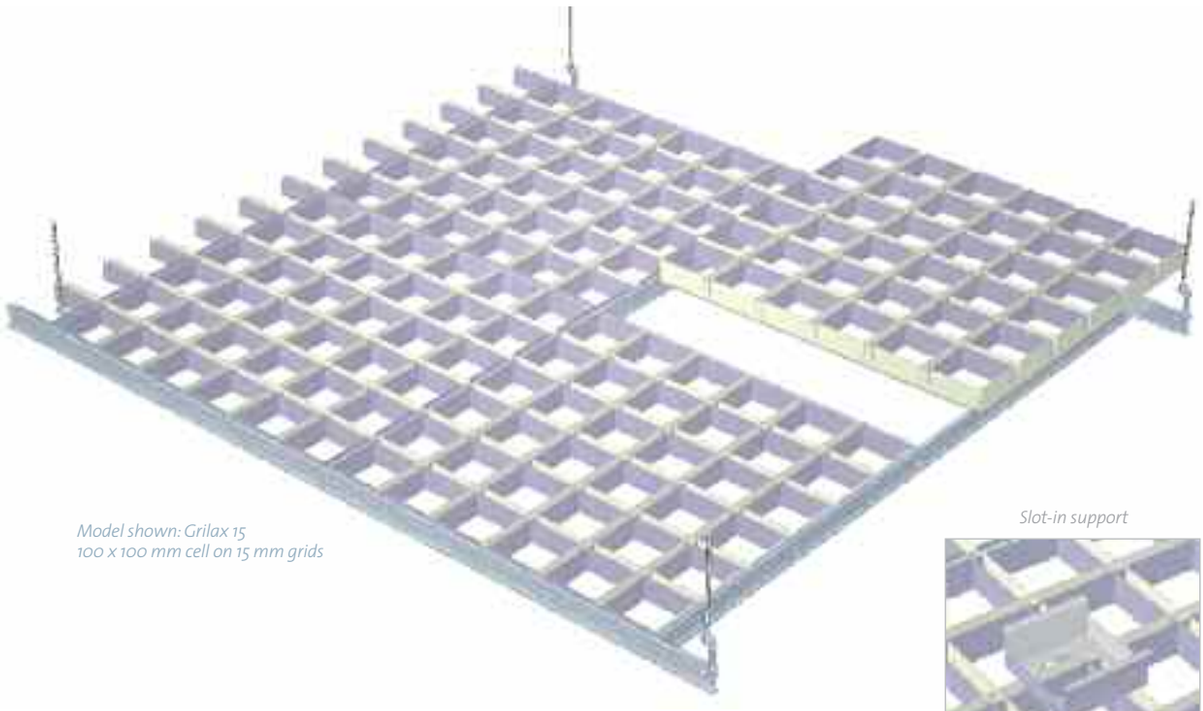
> Framed double-skin open cell ceiling for T15



- Designed to be inserted on a T15 grid.
- Gives the ceiling a cellular effect.
- Panels are equipped with a frame, which conceals the core of the grid so that it blends in with the ceiling assembly.

Product benefits

- Creates an impression of space and light, in addition to indirectly concealing the plenum space.
- Enables active fire protection systems to operate subject to meshing.
- Panels can easily be removed by simply lifting up the panel in the grid.



Model shown: Grilax 15
100 x 100 mm cell on 15 mm grids

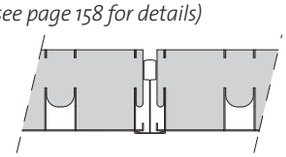
Slot-in support

Grilax

> Framed double-skin open cell ceiling for T15

Installation according to DTU 58.1 *(see page 158 for details)*

On the T15 grid module 600 x 600 mm.



Important:
If sprinklers are inserted above the suspended open cell ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area according to Section 12.4.14 of EN 12845:2004.
In practice, an open area greater than 80% is often required for ceiling fixtures.

Disassembly for access to the plenum space

By simply lifting the panel in the grid

Reaction to fire *(see page 152 for details)*

- A1.

Perforations

- Perforation possible on the sides of the U elements. Please contact us.

Sound absorbant insulation

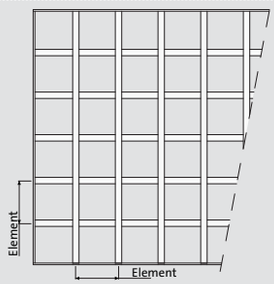
- Possibility of providing an insulating material incorporated in the panel, held in place by its frame. Please contact us

Cut outs and integrations

- Slot-in supports for spots, sprinklers or other fittings upon request.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): A+

Module dimensions	• 600 x 600 mm. • Other dimensions upon request.
Dimensions of the U elements	• Grilax 15 : 15 mm wide, 38 mm high. • Other widths and heights upon request.
Cells dimensions	• Square or rectangular with intervals of 50, 60, 66.6, 75, 86, 100, 120, 150 or 200 mm.
Open area percentages	• Greater than 70% from the 100 x 100 mm cells. • Greater than 80% from the 150 x 150 mm cells. • Please contact us for other cells options
In stock	• Grilax 15: 100 x 100 mm and 150 x 150 mm cells.
Diagram of the cells and elements	 Cells  U profiles and elements
Materials	•Aluminum 0.4 mm thick.
Colours and finishes	•White polyester prepainted. •Metallic grey polyester prepainted. •Black polyester prepainted. •Polyester prepainted in other colours depending on the quantity.
Packaging	•Grilax 15 from stock: package of 7.2 m^2 or 20 panels measuring 600 x 600 mm. •Grid not included.

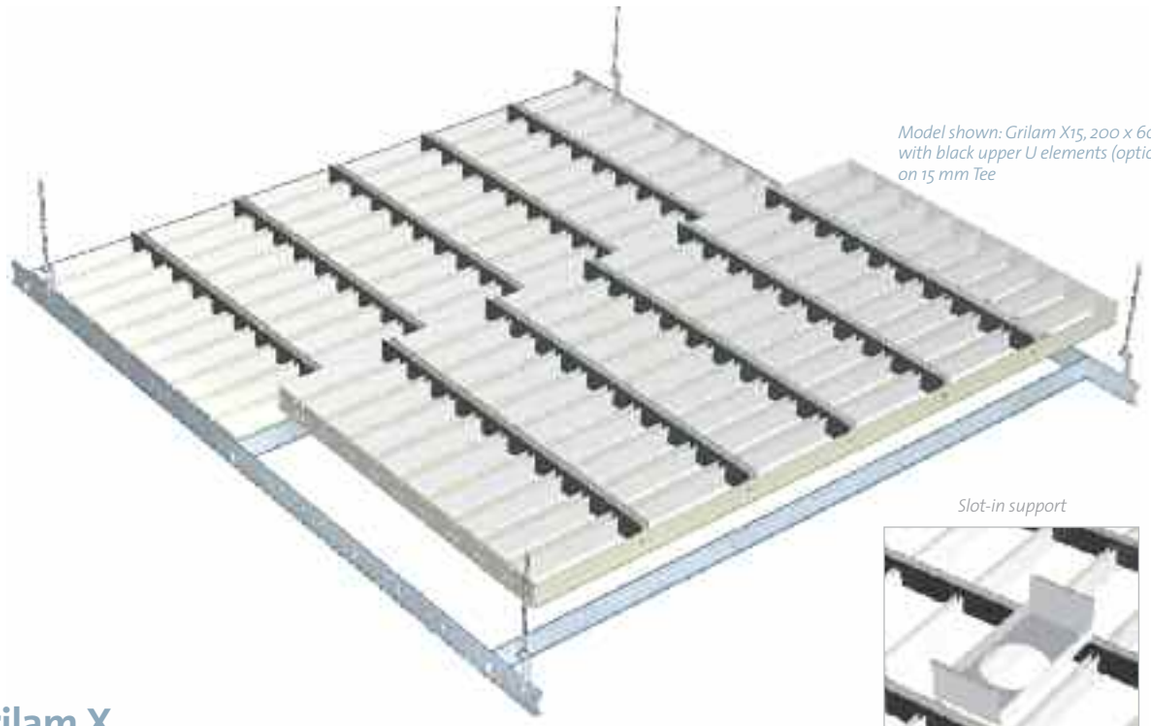
Grilam X

> Framed linear-effect double-skin open cell ceiling for T15

- Designed to be laid on a T15 grid.
- Gives the ceiling a linear effect by means of a gap towards the top of the U cross-members, with the exception of the T grid.
- Panels are made with a frame, which conceals the core of the grid so that it blends in with the ceiling assembly.

Product benefits

- Creates an impression of space and light, in addition to indirectly concealing the plenum space.
- Enables active fire protection systems to operate depending on cells dimensions.
- Panels can easily be removed by simply lifting up the panel in the grid.



Model shown: Grilam X15, 200 x 60 mm cells, with black upper U elements (optional), on 15 mm Tee

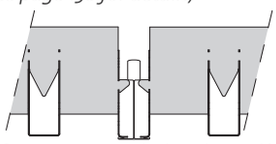
Slot-in support

Grilam X

> Framed linear-effect double-skin open cell ceiling for T15

Installation according to DTU 58.1 *(see page 158 for details)*

On the T15 grid module 1200 x 600 mm.



Important:
If sprinklers are inserted above the suspended open cell ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area according to Section 12.4.14 of EN 12845:2004.
In practice, an open area greater than 80% is often required for ceiling fixtures.

Disassembly for access to the plenum space

By simply lifting the panel in the grid

Reaction to fire *(see page 152 for details)*

- A1.

Perforations

- Perforation possible on the sides of the U elements. Please contact us.

Sound absorbant insulation

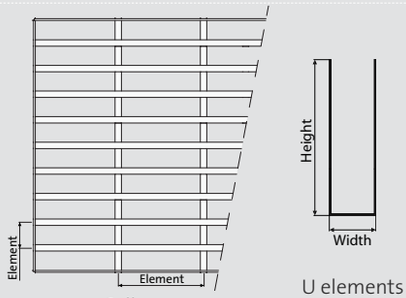
- Please contact us

Cut outs and integrations

- Slot-in supports for spots, sprinklers or other fittings upon request.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): 

Module dimensions	• 1200 x 600 mm. • Other dimensions upon request.
Dimensions of elements with 15 mm-wide upper U sections for all models	• Grilam X9: lower U section 9 mm wide and 40 mm high. • Grilam X15: lower U section 15 mm wide and 38 mm high.
Cell dimensions	• Rectangular, with intervals greater than 200 or 300 mm by intervals less than 50, 60, 66,6, 75, 86 or 100 mm.
Open area percentages	• Greater than 70% for all cells in Grilam X9 and from the 200 x 66.6 mm cells for the Grilam X15. • Greater than 80% from the 200 x 75 mm cells for the Grilam X9 and from the 300 x 100 mm cells for the Grilam X15.
Diagram of the cell and elements	 Cells U elements smaller
Materials	•Aluminum 0.4 mm thick.
Colours and finishes	•White polyester prepainted. •Metallic grey polyester prepainted. •Black polyester prepainted. •Polyester prepainted in other colours depending on the quantity.
Packaging	•Complete packages. •Grid not included.

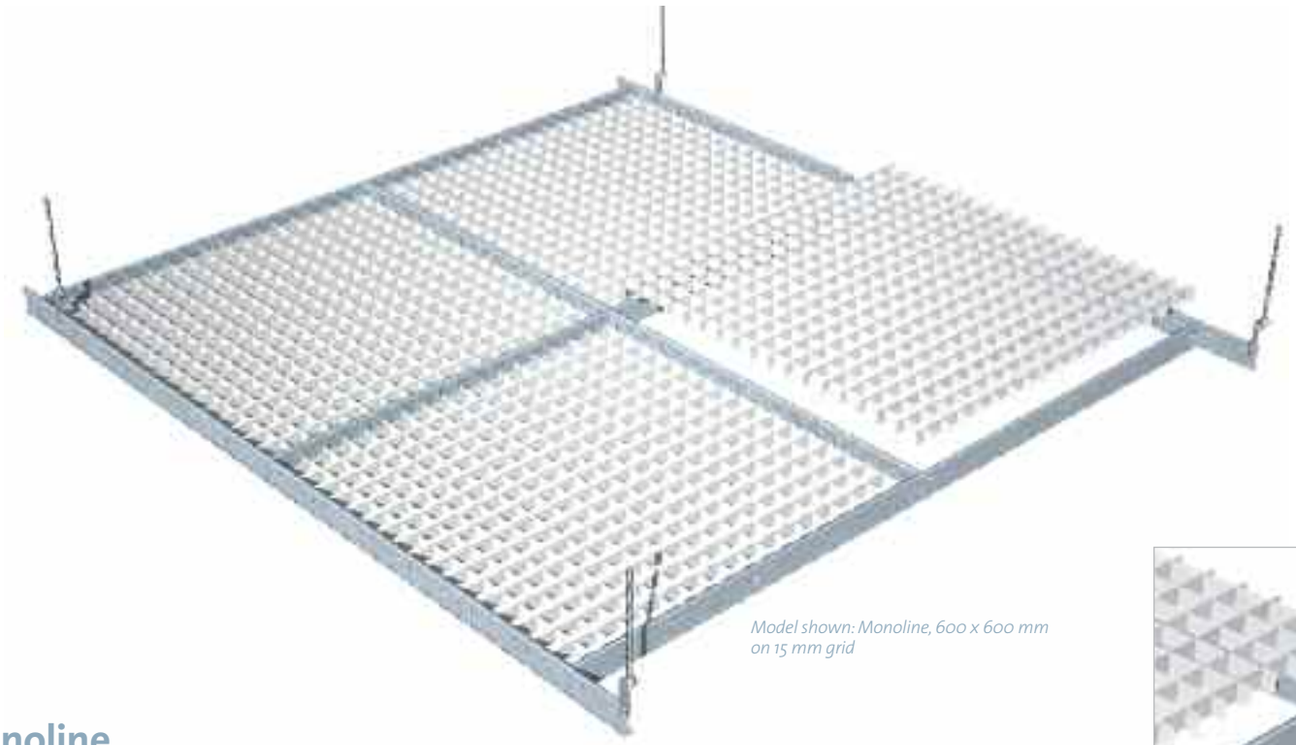
Monoline

> Single-skin open cell ceiling for T15 or T24

- Designed to be inserted on a T15 or T24 grid.
- Gives the ceiling a cellular effect.

Product benefits

- Creates an impression of space and light, in addition to indirectly concealing the plenum space.
- Enables active fire protection systems to operate.
- Can occasionally be used in conventional ceilings as low light diffusers, lighting pelmets or air vents.
- Panels can easily be removed by simply lifting up the panel in the grid.



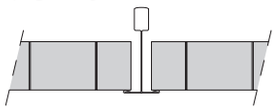
Model shown: Monoline, 600 x 600 mm on 15 mm grid

Monoline

> Single-skin open cell ceiling for T15 or T24

Installation according to DTU 58.1 *(see page 158 for details)*

On T15 or T24 grid, module: 600 x 600 mm or 1200 x 600 mm.



Important:
If sprinklers are inserted above the suspended open cell ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area according to Section 12.4.14 of EN 12845:2004.
In practice, an open area greater than 80% is often required for ceiling fixtures.

Disassembly for access to the plenum space

By simply lifting the panel in the grid

Reaction to fire *(see page 152 for details)*

- A1.

Perforations

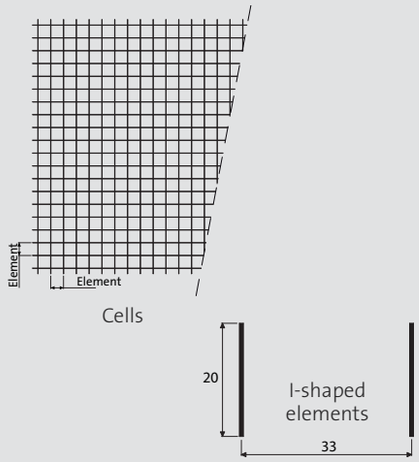
- Perforation possible on the sides of the U elements. Please contact us.

Sound absorbant insulation

- Please contact us.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ):

Module dimensions	• 600 x 600 mm. • 1200 x 600 mm.
Dimensions of the I-shaped elements	• Height: 20 mm.
Cells dimensions	• Square with intervals of 33 x 33 mm. • Other cells options upon request.
Open area percentages	• Greater than 95% for the 33 x 33 mm cells. • Please contact us for other cells options.
Diagram of the cells and elements	
Materials	•Aluminum 0.4 mm thick.
Colours and finishes	•White polyester prepainted. •Polyester prepainted in other colours depending on the quantity.
Packaging	•Package of 7.2 m^2 or 20 panels measuring 600 x 600 mm. •Package of of 7.2 m^2 or 10 panels measuring 1200 x 600 mm. •Grid not included.

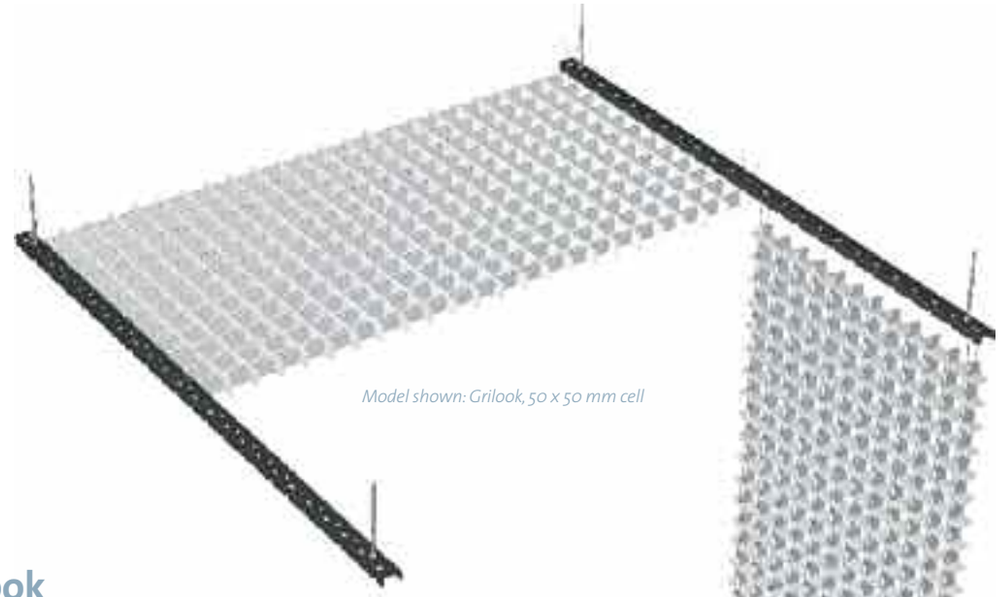
Grilook

> Swing-down double-skin open cell ceiling on a concealed grid

- Designed to be laid on specific concealed runners that enable panels to swing down.
- Gives the ceiling a cellular effect.

Product benefits

- Creates an impression of space and light, in addition to indirectly concealing the plenum space.
- Enables active fire protection systems to operate depending on cells dimensions.
- The swing-down system prevents panels from being removed and placed on the ground, thus minimising any damage caused by poor handling.



Model shown: Grilook, 50 x 50 mm cell

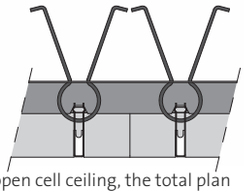
Slot-in support

Grilook

> Swing-down double-skin open cell ceiling on concealed grid

Installation according to DTU 58.1 *(see page 158 for details)*

Hangers with 1200 mm axis regularity, U-shaped runners with 1200 mm axis regularity and spring clips for fixing and pivoting panels.



Important:
If sprinklers are inserted above the suspended open cell ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area according to Section 12.4.14 of EN 12845:2004.
In practice, an open area greater than 80% is often required for ceiling fixtures.

Disassembly for access to the plenum space

- Pull the four corners of the panel (equipped with a spring clip) downwards, to make the panel drop a few centimetres.
- Then pinch two spring clips to disconnect the grille from the runner in the desired opening direction.

Reaction to fire *(see page 152 for details)*

- A1.

Perforations

- Perforation possible on the sides of the U elements. Please contact us.

Sound absorbant insulation

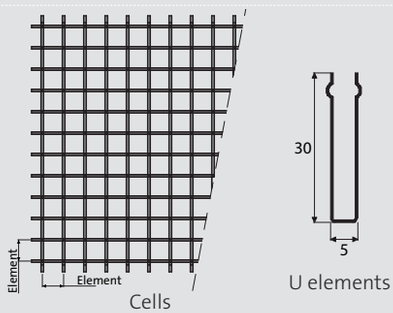
- Please contact us.

Cut outs and integrations

- Slot-in supports for spots, sprinklers or other fittings upon request.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Module dimensions	• 1200 x 600 mm. • Other dimensions upon request.
Dimensions of the U elements	• Width: 5 mm, height: 30 mm.
Cells dimensions	• Square with intervals of 50, 60, 66.6, 75, 86 or 100 mm.
Open area percentages	• Greater than 80% for all cells.
Lengths of the runners (perforated) for Ø6 threaded rod	• 2400 or 3000 mm.
Diagram of the cells and elements	 Cells U elements
Materials	•Aluminum 0.4 mm thick.
Colours and finishes	•White polyester prepainted. •Metallic grey polyester prepainted. •Polyester prepainted in other colours depending on the quantity.
Packaging	•Package of of 7.2 m^2 or 10 panels measuring 1200 x 600 mm. •Perforated runners for the Ø6 threaded rod and spring clips must be ordered separately depending on the layout.

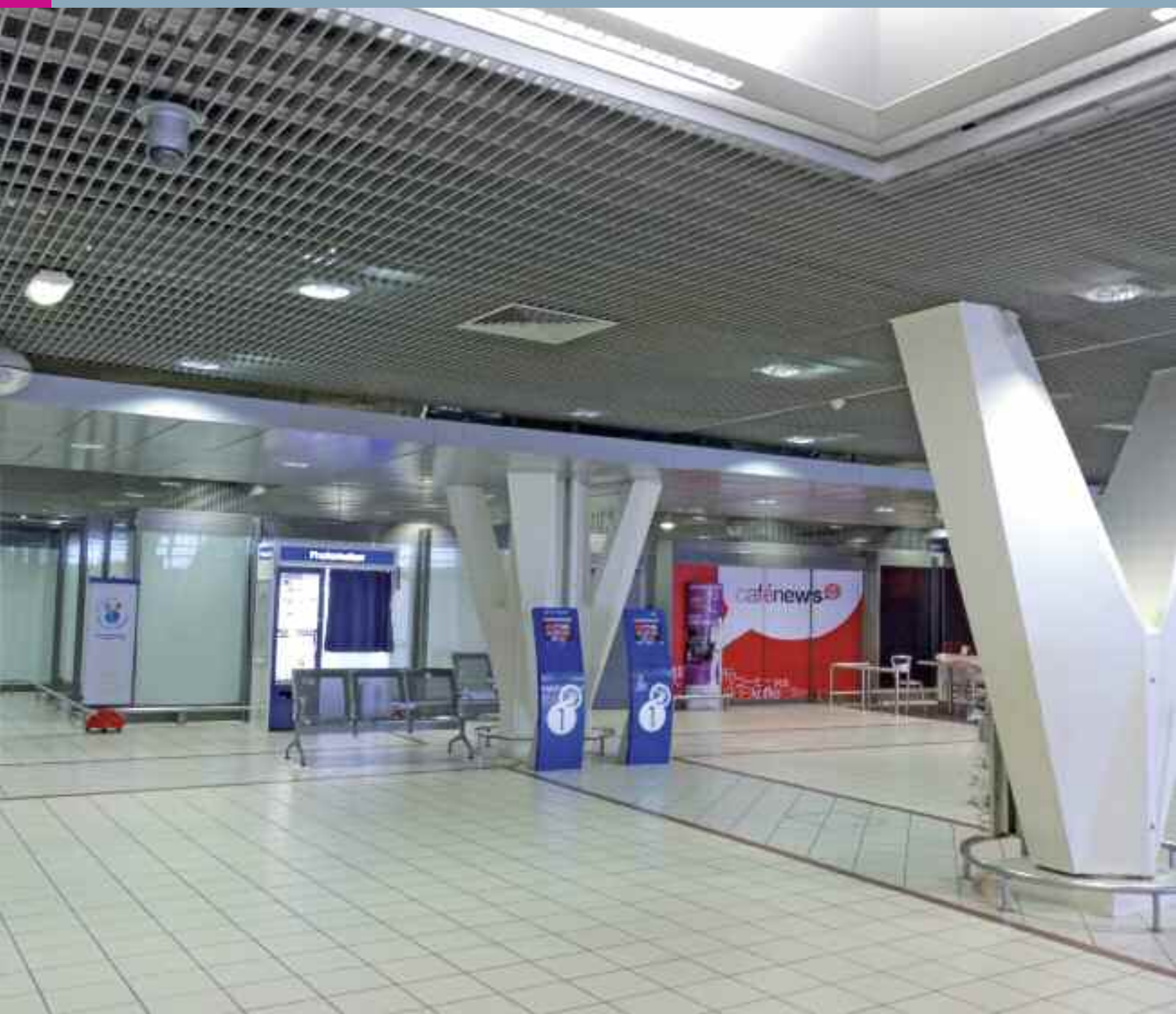
Grilam B

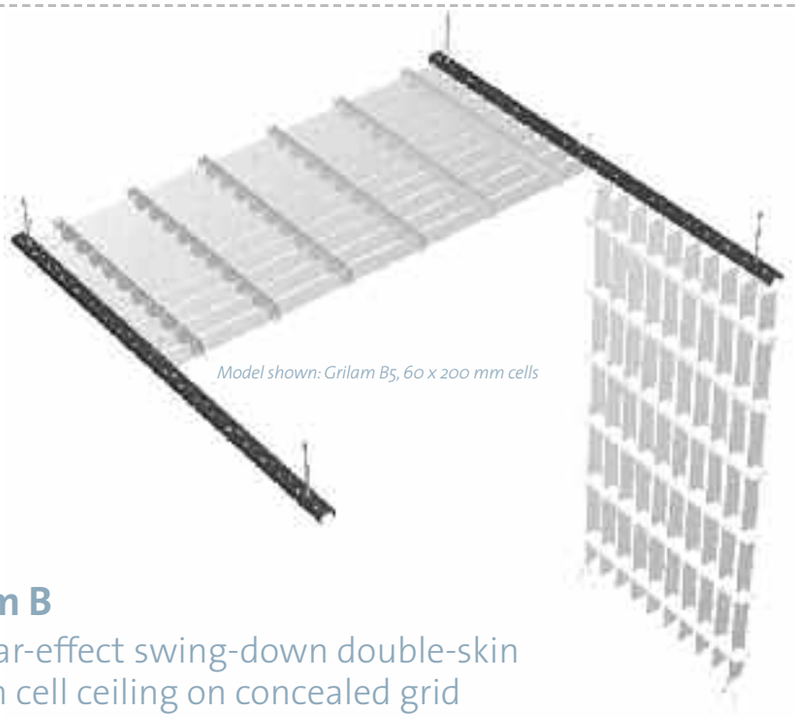
> Linear-effect swing-down double-skin open cell ceiling on a concealed grid

- Designed to be fixed on specific concealed runners that enable panels to swing down.
- Gives the ceiling a linear effect by shifting up the top of the U cross-members.

Product benefits

- Creates an impression of space and light, in addition to indirectly concealing the plenum space.
- Enables active fire protection systems to operate depending on cells dimensions.
- The swing-down system prevents panels from being removed and placed on the ground, thus minimising any damage caused by poor handling.





Model shown: Grilam B5, 60 x 200 mm cells

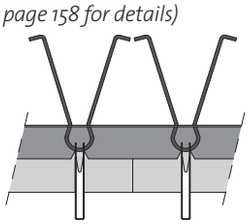
Slot-in support

Grilam B

> Linear-effect swing-down double-skin open cell ceiling on concealed grid

Installation according to DTU 58.1 *(see page 158 for details)*

Hangers with 1200 mm axis regularity, U-shaped runners with 1200 mm axis regularity and spring clips for fixing and pivoting panels.



Important:
If sprinklers are inserted above the suspended open cell ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area according to Section 12.4.14 of EN 12845:2004.
In practice, an open area greater than 80% is often required for ceiling fixtures.

Disassembly for access to the plenum space

- Pull the four corners of the panel (equipped with a spring clip) downwards, to make the panel drop a few centimetres.
- Then pinch two spring clips to disconnect the grille from the runner in the desired opening direction

Reaction to fire *(see page 152 for details)*

- A1.

Perforations

- Perforation possible on the sides of the U elements. Please contact us.

Sound absorbant insulation

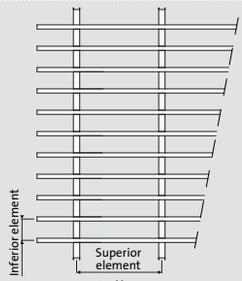
- Please contact us.

Cut outs and integrations

- Slot-in supports for spots, sprinklers or other fittings upon request.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)

Module dimensions	• 1200 x 600 mm. • Other dimensions upon request.
Dimensions of elements with 15 mm-wide upper U sections for all models	• Grilam B5: lower U section 5 mm wide and 43 mm high. • Grilam B9: lower U section 9 mm wide and 40 mm high.
Cells dimensions	• Rectangular, with intervals greater than 200 or 300 mm by intervals less than 50, 60, 66,6, 75, 86 or 100 mm.
Open area percentages	• Greater than 70% for all cells in all the models. • Greater than 80% for all cells in Grilam B5 and from the 200 x 66.6 mm cells for the Grilam B9.
Lengths of the runners (perforated) for Ø6 threaded rod	• 2400 or 3000 mm.
Diagram of the cells and elements	 Cells  Lower U profiles and elements
Materials	•Aluminum 0.4 mm thick.
Colours and finishes	•White polyester prepainted. •Metallic grey polyester prepainted. •Black polyester prepainted. •Polyester prepainted in other colours depending on the quantity.
Packaging	•Package of 7.2 m² or 10 panels measuring 1200 x 600 mm. •Perforated runners for the Ø6 threaded rod and spring clips must be ordered separately depending on the layout.

On a visible grid

Ends of the panels overlapping the grid

Pm10

Abutting sides and bevelled edges

Page 90

Pm12

Interlocking abutting sides and bevelled edges

Page 92

Pm8
Fire resistant

Abutting sides and square edges

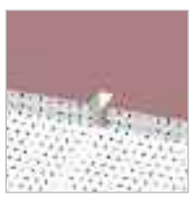
Page 94

Ends of the panels overlapping or flush with the Grid

Pm2

Abutting sides and square or bevelled edges

Page 96



Pm3

Overlapping abutting sides and square or bevelled edges

Page 98

Self-supporting panels

For corridors and beam grid installations

Self-supporting panels rest on their ends and can be used to create long lengths suited to corridors and spans inside buildings

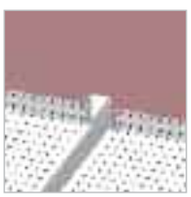
They also reduce installation time by 25% compared to a ceiling of the same surface area mounted on a traditional frame, while making joins less conspicuous.

On a visible grid
> Stylish finish with strips overlapping or flush with the grid
> Easy to disassemble by simply lifting the panel to offer complete access
> Modular spaces by combining panels with suitable profiles

On a concealed grid
> Monolithic appearance
> Easy to disassemble underneath to offer complete access

PLAFOMETAL BENEFITS

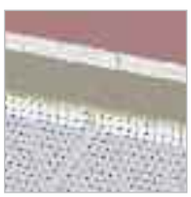
- Factory-made cutouts for integrating equipment
- Colour continuity across different deliveries
- Possibility of polyester powder coating in 180 RAL colours
- Large choice of perforations in the range and others available upon request
- Additional black acoustic fleece upon request
- Absorption coefficient α_w between 0.55 and 1



Pm4

Straight sides and square edges with a 15 mm closed hollow joint

Page 100



Pm5

Isophonic with abutting sides and square edges

Page 102

On a concealed grid

Horus

Monolithic with peripheral open hollow joint finish

Page 104

Pm10

> Self-supporting panel with abutting sides and bevelled edges

- Designed to be installed on a visible grid.
- The panel has abutting sides and bevelled edges.

Product benefits

- Length can be adapted as required: no intermediate grid, faster installation time.
- Easy to disassemble by simply lifting the panel to offer complete access.
- A cost-effective solution in the range of self-supporting panels.

Model shown in a corridor installation with double L type wall angles

Pm10

> Self-supporting panel with abutting sides and bevelled edges

Installation according to DTU 58.1 *(see page 158 for details)*

	Corridor			Beam grid		
End of the panel ⇩	Wall angle	Wall angle with hemmed edges	Double L type wall angle	T35	Bandraster omega or hollow joint	Matisse aluminum profile
Open	✔	✔	✔	✔	✔	✔

Disassembly for access to the plenum

- By simply lifting the panel in the grid if installed.

Absorption

(see page 150 for details and ap coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

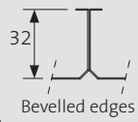
- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Environment and health

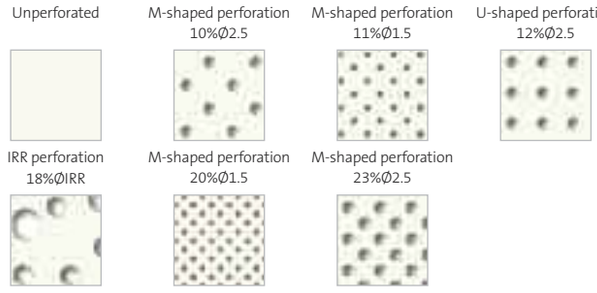
- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Panel dimensions	• Widths: 150, 200, 300 and 400 mm. • Length on request (min. 900 – max. 6000 mm) • Height: 32 mm. • Max. self-supporting capacity: 2800 mm for a width of 300 mm.
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted for inside or outside. •RAL 9006 metallic grey polyester prepainted for inside or outside. •Polyester powder coating: 180 RAL colours on request.

Panel connection



Perforations on steel *(for scale illustrations: see page 144)*



Please contact us if you would like perforations on aluminum.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

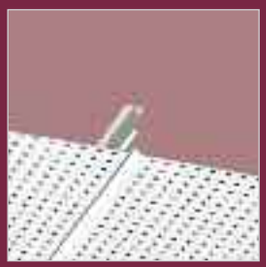
Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

Light reflection

CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Pm12



> Self-supporting panel with interlocking abutting sides and bevelled edges

- Designed to be installed on a visible grid.
- The panel has interlocking abutting sides and bevelled edges.

Product benefits

- Length can be adapted as required: no intermediate grid, faster installation time.
- Interlocking of the panels using a male / female sealing strip reduces the risks of light leakage and un flushing elements.
- Easy to disassemble by simply lifting the panel to offer complete access.
- A cost-effective solution in the range of self-supporting panels.

Model shown: Pm12 in a corridor installation with double L type wall angles

Pm12

> Self-supporting panel with interlocking abutting sides and bevelled edges

Installation according to DTU 58.1 *(see page 158 for details)*

	Corridor		Beam grid		
End of the panel ⇩ Open	Wall angle	Double L type wall angle	T35	Smooth plate or hollow joint	Matisse aluminum profile
	✔	✔	✔	✔	✔

Disassembly for access to the plenum

- By lifting an edge of the panel in the grid.

Absorption

(see page 150 for details and ap coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

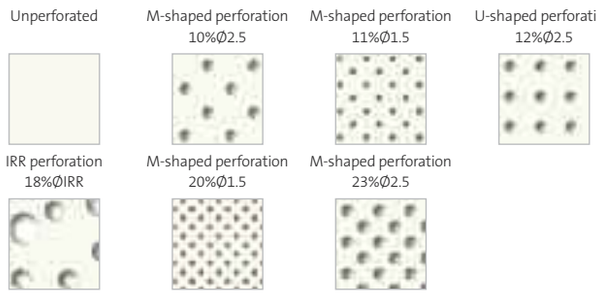
- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)

Panel dimensions	• Widths: 300 • Length on request (min. 900 – max. 3000 mm) • Height: 35 mm. • Max. self-supporting capacity: 2800 mm. Panel connection: 35 — Bevelled edges
Materials	•Galvanised steel 0.5 mm thick
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.

Perforations on steel *(for scale illustrations: see page 144)*



Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

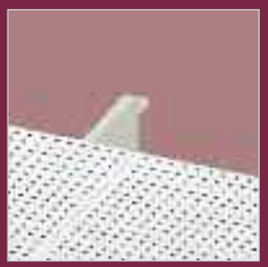
Cut outs and integrations

- Cut on the construction site.

Light reflection

CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Pm8 Fire-resistant

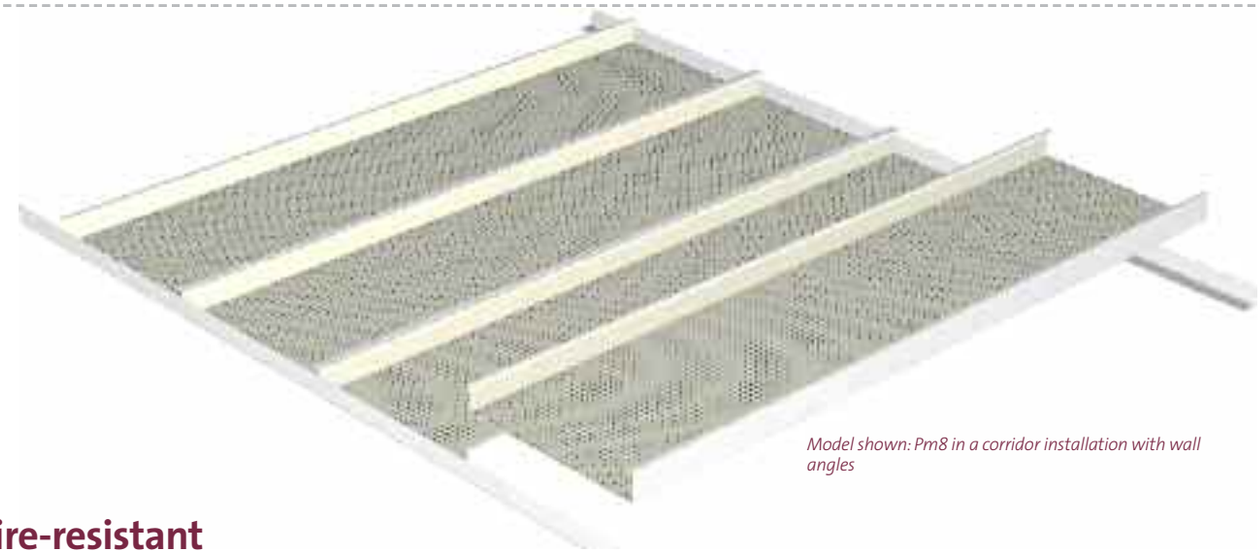


> Self-supporting panel with abutting sides and square edges

- Designed to be installed on a visible grid.
- The panel has abutting sides and square edges
- 1/4 h and 1/2 h fire resistance in France for shared-use corridors inside high-rise buildings.
- 1/2 h fire resistance in Belgium for escape routes and areas accessible to the public.

Product benefits

- Length can be adapted as required: no intermediate grid, faster installation time.
- Can be equipped with folded ends for greater lateral rigidity.
- Easy to disassemble by simply lifting the panel to offer complete access.
- Fire resistance in France and Belgium



Model shown: Pm8 in a corridor installation with wall angles

Pm8, fire-resistant

> Self-supporting panel with abutting sides and square edges

Installation according to DTU 58.1 *(see page 158 for details)*

	Corridor	
End of the panel ⇩	Wall angle*	Wall angle with hemmed edges*
Open	✔	✔
Straight and raised	✔	✔

* 30 x 30 mm, 0.8 mm thick.

Disassembly for access to the plenum

- By lifting an edge of the panel in the grid.

Absorption

(see page 150 for details and ap coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Resistance to fire *(see page 154 for details)*

France

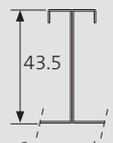
- Fire-resistant Pm8 offers fire-resistance performance of FS 1/4 h and FS 1/2 h pursuant to the test described in Appendix 1, Section 2.5 of the Regulation of 22 March 2004 and meets applicable French fire regulations for shared-use horizontal corridors inside high-rise buildings. Panels and wall angles must be installed in conformity with applicable classification reports and appendices. Please contact us.

Belgium

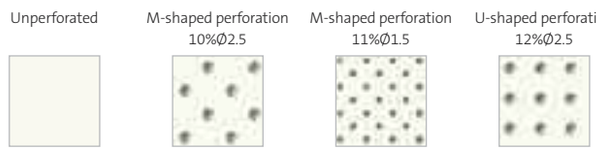
- Fire-resistant Pm8 offers fire-resistance performance of FS 1/2 h pursuant to the test according to the Belgian NBN 713-020 standard and meets applicable Belgian fire regulations for escape routes, areas accessible to the public and collective kitchens. Panels and wall angles must be installed in conformity with applicable classification reports and appendices. Please contact us.

Panel dimensions	• Widths: 300 • Length on request (min. 900 – max. 2400 mm) • Height: 43.5 mm. • Max. self-supporting capacity: 2400 mm, fire-resistant.
Materials	•Galvanised steel 0.6 mm thick
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.

Panel connection



Perforations on steel *(for scale illustrations: see page 144)*



Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations

- Cut on the construction site.

Light reflection

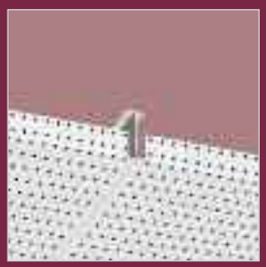
CIE Lab index	Unperforated	11%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+

CREATIVE ELEMENTS – SELF-SUPPORTING PANELS

Pm2



> Self-supporting panel with abutting sides and square or bevelled edges

- Designed to be installed on a visible grid.
- The panel has abutting sides and square or bevelled edges.

Product benefits

- Length can be adapted as required: no intermediate grid, faster installation time.
- Adaptable widths for superior flexibility.
- Can be equipped with different folded ends for greater lateral rigidity and can be adapted to most grids.
- Easy to disassemble by simply lifting the panel to offer complete access.

Odontology Training and Research Unit and Dental Care Centre in Clermont-Ferrand, architect: Philippe Gazeau.

Model shown with ends raised in a Z shape, beam grid installation with C bandraster

Pm2

> Self-supporting panel with abutting sides and square or bevelled edges

Installation according to DTU 58.1 *(see page 158 for details)*

End of the panel ⇩	Corridor: Wall angle	Corridor: Double L type wall angle	Beam grid: T35	Beam grid: Bandraster Omega or hollow joint	Beam grid: C Bandraster	Beam grid: Gauguin aluminum profile	Beam grid: Matisse aluminum profile
Open	✔	✔	✔	✔			✔
Straight and raised	✔	✔	✔	✔			✔
Raised in a Z shape					✔	✔	

Disassembly for access to the plenum

- By simply lifting the panel in the grid.

Absorption

(see page 150 for details and ap coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

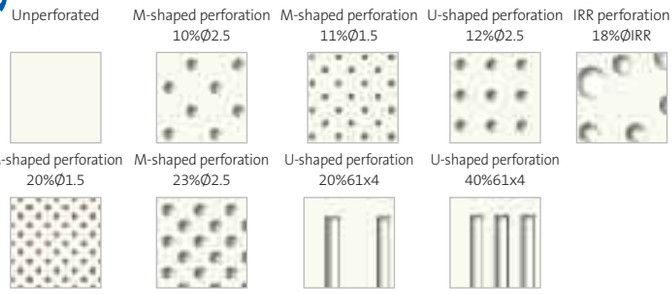
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Panel dimensions	• Widths: 300, 400 and 600 mm. Others available on request. • Length on request (min. 900 – max. 3000 mm) • Height: 35 mm. • Max. self-supporting capacity: 2800 mm for a width of 300 mm. Panel connection 35 Square edges Panel connection 35 Bevelled edges
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.

Perforations on steel *(for scale illustrations: see page 144)*



Possibility of stopping the perforation at the end of panel (with the exception of 18%IRR). Please contact us if you would like perforations on aluminum.

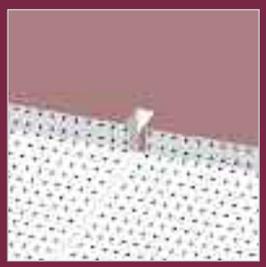
Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

Pm3

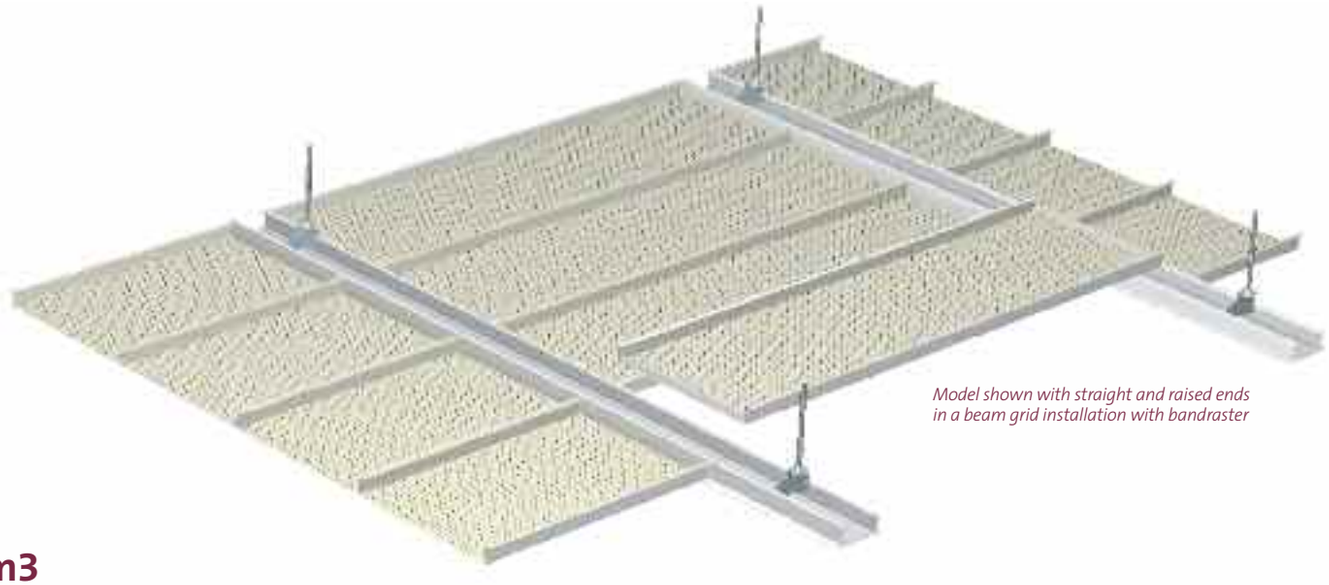


> Self-supporting panel with overlapping abutting sides and square or bevelled edges

- Designed to be installed on a visible grid.
- The panel has overlapping abutting sides and square or bevelled edges

Product benefits

- Length can be adapted as required: no intermediate grid, faster installation time.
- Adaptable widths for superior flexibility.
- The overlap reduces the risks of light leakage and un flush elements.
- Can be equipped with different folded ends for greater lateral rigidity and can be adapted to most grids.
- Easy to disassemble by simply lifting the panel to offer complete access.



Model shown with straight and raised ends in a beam grid installation with bandraster

Pm3

> Self-supporting panel with overlapping abutting sides and square or bevelled edges

Installation according to DTU 58.1 *(see page 158 for details)*

	Corridor		Beam grid				
End of the panel ⇩	Wall angle	Double L type wall angle	T35	Bandraster Omega or hollow joint	C Bandraster	Gauguin aluminum profile	Matisse aluminum profile
Open	✔	✔	✔	✔			✔
Straight and raised	✔	✔	✔	✔		✔	✔
Raised in a Z shape					✔	✔	

Disassembly for access to the plenum

- By lifting an edge of the panel (overlapping side) in the grid.

Absorption

(see page 150 for details and ap coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

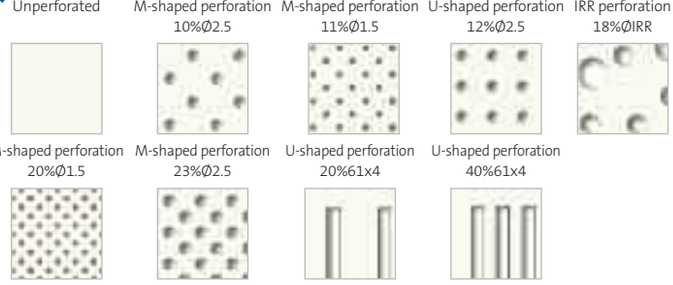
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Panel dimensions	• Widths: 300, 400 and 600 mm. Others available on request. • Length on request (min. 900 – max. 3000 mm) • Height: 31 mm. • Max. self-supporting capacity: 2800 mm for a width of 300 mm. Panel connection 31 Square edges Panel connection 31 Bevelled edges
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.

Perforations on steel *(for scale illustrations: see page 144)*



Possibility of stopping the perforation at the end of panel (with the exception of 18%IRR). Please contact us if you would like perforations on aluminum.

Sound absorbant insulation

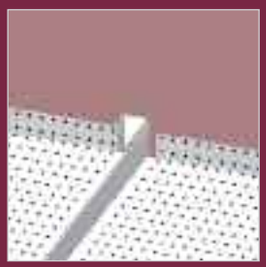
- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

PLAFOMETAL

Pm4



> Self-supporting panel with straight sides and square edges, forming a 15 mm closed hollow joint

- Designed to be installed on a visible grid.
- The panel has straight sides and square edges, forming a 15 mm closed hollow joint.

Product benefits

- Length can be adapted as required: no intermediate grid, faster installation time.
- Adaptable widths for superior flexibility.
- The closed hollow joint reinforces the directional effect of the panels and reduces the risks of light leakage.
- Can be equipped with different folded ends for greater lateral rigidity and can be adapted to most grids.
- Easy to disassemble by simply lifting the panel to offer complete access.
- Access to the plenum can be restricted by screwing at the bottom of the hollow joint.

Model shown with straight and raised ends in a corridor installation with double L type wall angles

Pm4

> Self-supporting panels with straight sides and square edges, forming a 15 mm closed hollow joint

Installation according to DTU 58.1 *(see page 158 for details)*

	Corridor		Beam grid			
End of the panel ⇩	Wall angle	Double L type wall angle	T35	Bandraster Omega or hollow joint	C Bandraster	Matisse aluminum profile
Open	✔	✔	✔	✔		✔
Straight and raised	✔	✔	✔	✔		✔
Raised in a Z shape					✔	

Disassembly for access to the plenum

- By lifting an edge of the panel (overlapping side) in the grid.

Absorption

(see page 150 for details and ap coefficients per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

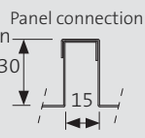
Light reflection

CIE Lab index	Unperforated	11%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9

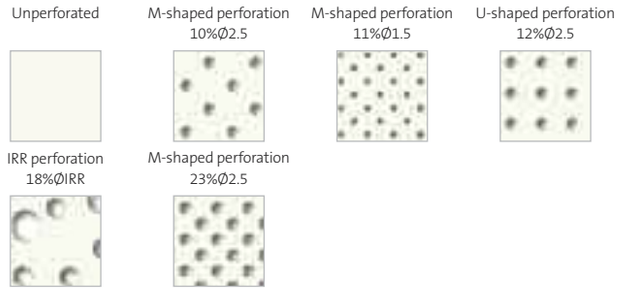
Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)

Panel dimensions	• Widths: 300, 400 and 600 mm. Others available upon request. • Length on request (min. 900 – max. 3000 mm) • Height: 30 mm. • Hollow joint 15 mm wide. • Max. self-supporting capacity: 2800 mm for a width of 300 mm.
Materials	•Galvanised steel 0.5 or 0.6 mm thick depending on the width and length. •Aluminum 0.6 or 0.7 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.



Perforations on steel *(for scale illustrations: see page 144)*



Possibility of stopping the perforation at the end of panel (with the exception of 18%IRR). Please contact us if you would like perforations on aluminum.

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

CREATIVE ELEMENTS – SELF-SUPPORTING PANELS

Pm5

> Self-supporting, isophonic panel with abutting sides and square edges

- Designed to be installed on a visible grid.
- The panel has abutting sides and square edges.
- The panel has fold-out brackets, capable of supporting mineral wool and plasterboard.

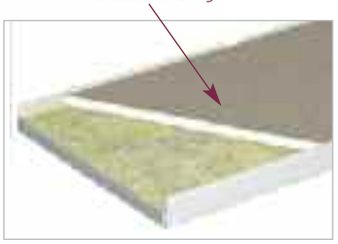
Product benefits

- Length can be adapted as required: no intermediate grid, faster installation time.
- Adaptable widths for superior flexibility.
- Enables lateral sound isolation between offices.
- Can be equipped with different folded ends for greater lateral rigidity and can be adapted to most grids.
- Easy to disassemble by simply lifting the panel to offer complete access.

Model shown with straight and raised ends in a beam grid installation on Matisse aluminum profiles

Pm5

> Self-supporting, isophonic panel with abutting sides and square edges



Installation according to DTU 58.1 *(see page 158 for details)*

End of the panel ⇩	Corridor: Wall angle*	Corridor: Wall angle with hollow joint*	Beam grid: C Bandraster	Beam grid: Gauguin aluminum profile	Beam grid: Matisse aluminum profile
Straight and raised	✔	✔			✔
Raised in a Z shape	✔	✔		✔	✔
Raised in a Z bracket			✔	✔	

** Minimum recommended thickness: 0.8 mm. Please contact us.*

Disassembly for access to the plenum

- By simply lifting the panel in the grid.

Absorption

(see page 150 for details and ap coefficients per 1/3 octave)

- α_w 0.65 with wool under polythene, 11%Ø1.5 perforation and plasterboard top plate.

Lateral attenuation *(see page 150 for Dn coefficient per 1/3 octave)*

- $D_{nT,w}$ $(C;C_{tr})$ = 47 (- 1; - 5) to 50 (-2; -8) dB depending on the implementation configuration with polythene wrapped wool, 11%Ø1.5 perforation and plasterboard top plate.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted, non-filled solutions
- A2,s1,d0 for the powder coated, non-filled solutions
- Please refer to the specified performances of the products used to fill the panel.

Light reflection

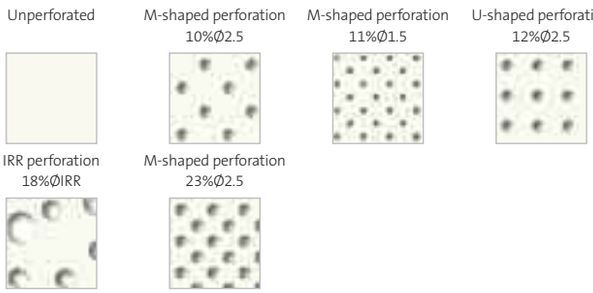
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+

Panel dimensions	• Widths: 300 mm. Others available on request. • Length on request (min. 900 – max. 1800 mm) • Height: 35 mm. • Max. self-supporting capacity: 1800 mm for a width of 300 mm. Panel connection: 35 / 13 / Square edges
Materials	•Galvanised steel 0.5 mm thick.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.

Perforations *(for scale illustrations: see page 144)*



Possibility of stopping the perforation at the end of panel (with the exception of 18%IRR).

Sound absorbant insulation

- Panel to be filled with mineral polythene wrapped wool film and plasterboard BA 13.
- Other possibilities on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

Horus

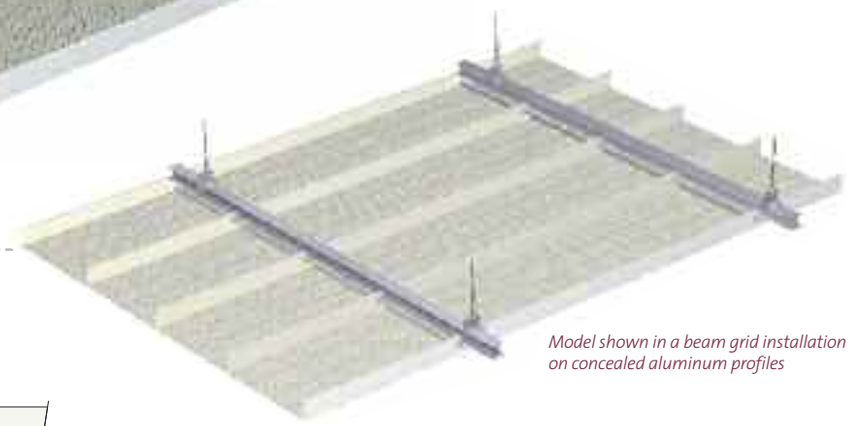
> Self-supporting, monolithic panel with peripheral open hollow joint finish

- Designed to be installed on a concealed grid.
- The panel has abutting sides and square edges.
- Specific notches mean that the panel can be suspended on the grid and disassembled from below.

Product benefits

- Length can be adapted as required: no intermediate grid, faster installation time.
- Adaptable widths for superior flexibility.
- Gives the ceiling a solid and monolithic surface.
- Absorbs alignment gaps with vertical partitions thanks to a grid with an offset edge.
- Ideal for ventilating the plenum when used in a hospital.
- Easy to disassemble on the underside to offer complete access.

Model shown in a corridor installation on wall angles and concealed profiles



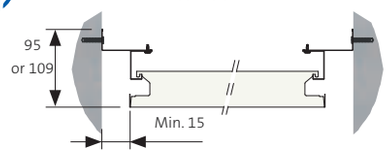
Model shown in a beam grid installation on concealed aluminum profiles

Horus

> Self-supporting, monolithic panel with peripheral open hollow joint finish

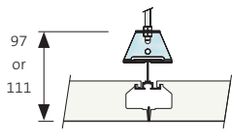
Installation according to DTU 58.1 (see page 158 for details)

Corridor



Wall angle to be fixed to the wall and Horus profile to be screwed onto the wall angle

Beam grid



Horus aluminum profile and hanger

Note on beam grid installations: the edge can be finished with the profiles and hollow joint used during a corridor installation, provided that the length of the compatible panels (complete edge panels) is compatible with the dimensions of the room.

Disassembly for access to the plenum

- The panel is disassembled by pushing it upwards and then sliding it sideways to avoid the profile and the adjacent panel in the case of a beam grid installation. This ensures downward clearance, since it is inclined on one side. The panel is repositioned in reverse, ensuring that the panel is correctly positioned so as to respect the alignment between one element and the next.

Absorption

(see page 150 for details and ap coefficients per 1/3 octave)

- α_W 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_W 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_W up to 1 with other sound absorbant insulation depending on perforation.

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

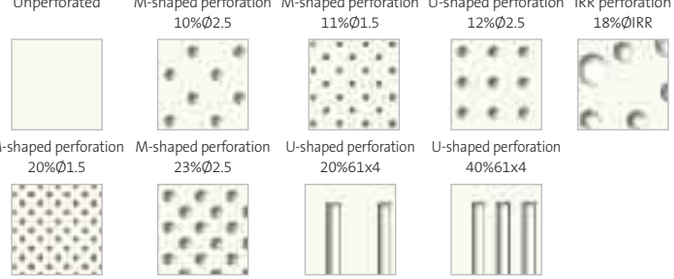
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Panel dimensions	• Widths: 300, 400 and 600 mm. Others available on request. • Length on request (min. 900 – max. 2700 mm) • Height: 37 or 50 mm depending on the width and length. • Max. self-supporting capacity: 2500 mm for a width of 300 mm. Panel connection: 37 or 50 – Square edges
Materials	•Galvanised steel 0.5, 0.6 or 0.8 mm thick depending on the width and length.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted •RAL 9006 metallic grey polyester prepainted on request. •Polyester powder coating: 180 RAL colours on request.

Perforations *(for scale illustrations: see page 144)*



Possibility of stopping the perforation at the end of panel (with the exception of 18%IRR).

Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Cut outs and integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

PLAFOMETAL

Swing-down elements

Orial / Orial, fire-resistant

Swing-down from either side
concealed grid

Page 108

Aries

Swing-down,
for confined areas

Page 110

Axess

Swing-down,
for intensive use

Page 112

Opening panels

For frequent access in corridors without having to disassemble the panel

For corridors and spanned areas requiring access to the plenum.

Featuring the best in technology and design, opening panels enable regular access to the plenum without any need to disassemble the ceiling, thereby avoiding any damage or misalignment due to poor handling.

Whether swing-down or sliding, panels stay firmly on their grids and provide a suitable solution for use in corridors in tertiary buildings, hospitals and high-rise buildings.

PLAFOMETAL BENEFITS

- Factory-made cut outs for integrating equipment.
- Connection with the walls by means of hollow joints, which absorb any misalignments with the vertical elements
- Possibility of adding recesses and/or lighting cables to the panels, integrating the opening system
- Ventilation of the plenum using open hollow joints for hospital buildings (Orial)
- Colour continuity across different deliveries
- Possibility of polyester powder postlacquering in 180 RAL colours
- Large choice of perforations in the range and others available on request
- Additional black acoustic fleece upon request
- Absorption coefficient α_w between 0.55 and 1

Sliding elements

Translabac

Sliding on top of the panels in place

Page 114

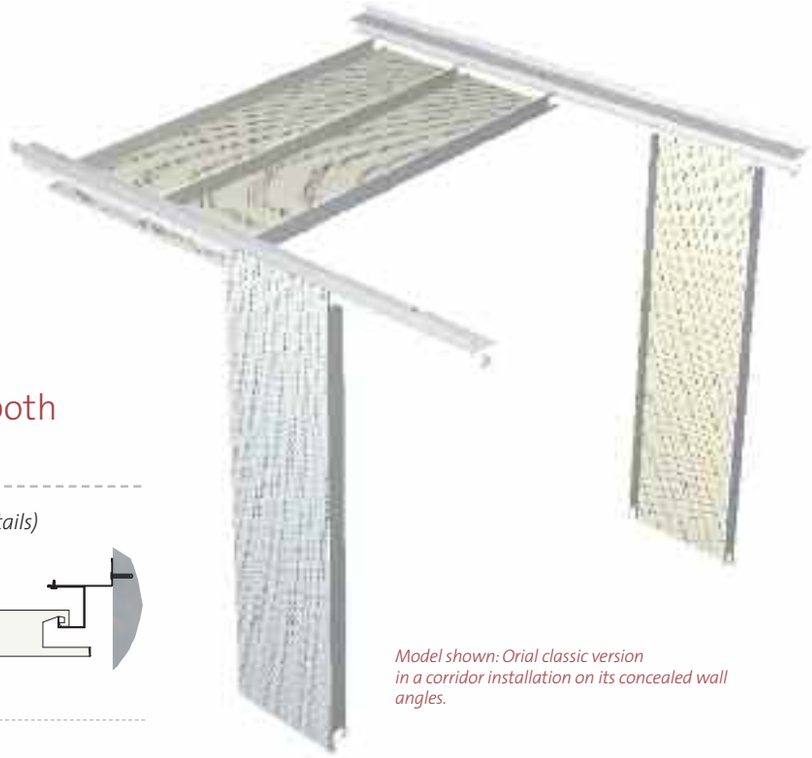
Orial / Orial fire-resistant

> Swing-down opening panel from both sides, concealed grid

- Designed to be installed on a special concealed grid.
- Notches mean that the panel can be suspended on the grid and swung down from one side or the other.
- The 1/4 h and 1/2 h fire-resistant versions are intended for use in shared-use corridors inside high-rise buildings.

Product benefits

- Length can be adapted as required; system is quick and easy to install.
- Can be swung down from one side or the other, to allow the entrance of people from a side door.
- Absorbs alignment gaps with vertical partitions because of a grid with an offset edge.
- Hollow edge joint, enabling ventilation of the plenum when used in a hospital.
- Available in a fire-resistant version.



Model shown: Orial classic version in a corridor installation on its concealed wall angles.

Orial / Orial, fire-resistant

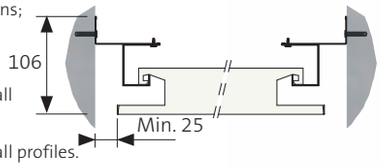
> Swing-down opening panel from both sides, concealed grid

Installation according to DTU 58.1 *(see page 158 for details)*

(except for the fire-resistant versions; see below)

Installation in corridor

Wall profiles to be fixed to the wall and Orial hinged profiles to be screwed underneath the wall profiles.



Disassembly for access to the plenum

- The panel is opened by pushing it upwards and then sliding it sideways to liberate it from the hinged profile. The panel swings down and remains suspended on the opposite profile. The panel is repositioned in reverse, ensuring that the panel is correctly positioned so as to respect the alignment between one element and the next.

Absorption

(see page 150 for details and ap coefficient per 1/3 octave)

- α_W 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_W 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_W up to 1 with other sound absorbant insulations depending on perforation

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Resistance to fire *(see page 154 for details)*

France

The Orial fire-resistant versions offers fire-resistance performance of FS 1/4 h and FS 1/2 h pursuant to the EFECTIS test described in Appendix 1. Section 2.5 of the Regulation of 22 March 2004 and meet applicable French fire regulations for shared-use corridors inside high-rise buildings. The fire-resistant panels and edge profiles are specific and must be installed in conformity with applicable classification reports and appendices. Please contact us.

Light reflection

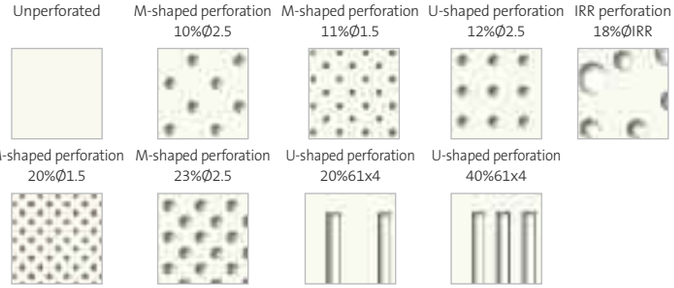
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Panel dimensions	• Widths: 300, 400 and 600 mm. Others available upon request. • Length upon request (min. 800 – max. 2500 mm). • Height: 50 mm. • Max. self-supporting capacity: 2500 mm for a width of 300 mm in the classic version. • Note the height under the ceiling for the opening. Panel connection: 50 – Square edges
Materials	•Galvanised steel 0.6 or 0.8 mm thick depending on the width and length.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted upon request. •Polyester powder coating: 180 RAL colours upon request.

Perforations on steel *(for scale illustrations: see page 144)*



Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Reservations, integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

PLAFOMETAL

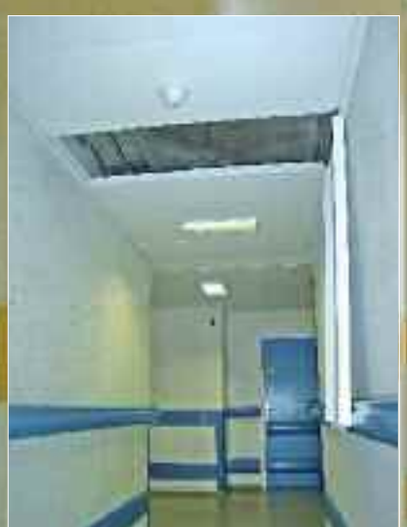
Aries

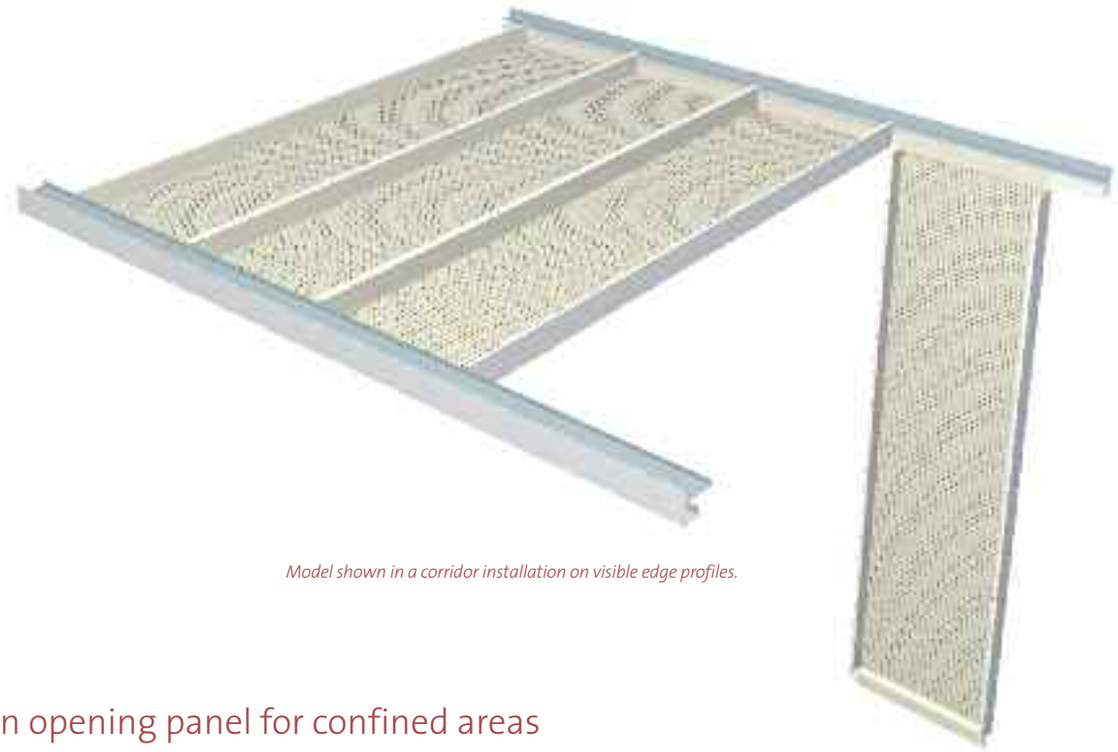
> Swing-down opening panel for confined areas

- Designed to be installed on a special visible grid.
- Specific notches at one end enable it to be hinged on the grid.
- The specially-finished end allows the panel to swing down.
- A closed hollow joint is created between the wall angle and the ends of the panel.

Product benefits

- Length can be adapted as required: no intermediate grid.
- The low height of the system means that it can be used in cramped or cluttered plenum.
- The robust swing-down system enables frequent usage.
- The system offers good airtightness and soundproofing properties.





Model shown in a corridor installation on visible edge profiles.

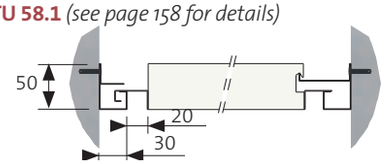
Aries

> Swing-down opening panel for confined areas

Installation according to DTU 58.1 *(see page 158 for details)*

Corridor

Pre-assembled Aries pivot profile and pre-assembled Aries hinged profile to be screwed to the wall



Disassembly for access to the plenum

- The panel is opened by pushing it upwards then sliding it sideways to to liberate it form the hinged profile. The panel swings down and remains suspended on the pivot profile. The panel is repositioned in reverse, ensuring that the panel is correctly positioned so as to respect the alignment between one element and the next.

Absorption

(see page 150 for details and α_p coefficient per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulation depending on perforation

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

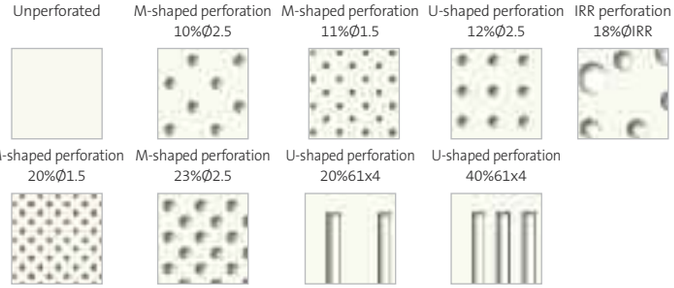
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+

Panel dimensions	• Widths: 300, 400 and 600 mm. Others available upon request. • Length upon request (min. 800 – max. 2500 mm). • Height: 50 mm. • Max. self-supporting capacity: 2500 mm for a width of 300 mm. • Note the required ceiling height in order to open the panel. Panel connection: 50, Square edges
Materials	•Galvanised steel 0.6 or 0.8 mm thick depending on the width and length.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted upon request. •Polyester powder coating: 180 RAL colours upon request.

Perforations on steel *(for scale illustrations: see page 144)*



Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Reservations, integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

Axess

> Swing-down opening panel for intensive use

- Designed to be installed on a special visible grid.
- Specific folds at one end permits hanging of the panel.
- It can swing down from the other end by means of a system of steel axes secured to the profile using clips.
- The assembly is connected to an adjustable structure consisting of rigid steel elements.
- A closed hollow joint is created between the wall profile and the ends of the panel.

Product benefits

- Length can be adapted as required: no intermediate grid.
- The swing-down system is particularly robust, meaning that it is suitable for intensive use.
- The system offers good airtightness and soundproofing properties.

Model shown in a corridor installation on its visible edge profiles and its swing-down system.

Axess

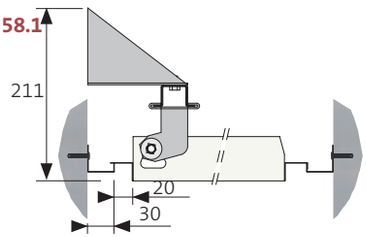
> Swing-down opening panel for intensive use

Installation according to DTU 58.1

(see page 158 for details)

Corridor

Bracket to be fixed to the wall, omega to be bolted, bracket to be slid, axis and clips to be assembled and Axess wall profile to be fixed to the wall.



Disassembly for access to the plenum

- The panel is opened by pushing it upwards and then sliding it sideways to liberate it from the supporting edge. The panel swings down and remains suspended on the pivoting axes. The panel is repositioned in reverse, while alignment takes place automatically.

Absorption

(see page 150 for details and α_p coefficient per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulations depending on perforation

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

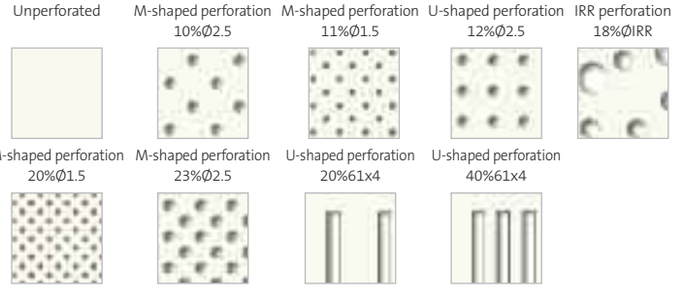
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Panel dimensions	• Widths: 300, 400 and 600 mm. Others available upon request. • Length upon request (min. 800 – max. 2500 mm). • Height: 50 mm. • Max. self-supporting capacity: 2500 mm for a width of 300 mm. • Note the required ceiling height in order to open the panel. Panel connection: 50 — Square edges
Materials	•Galvanised steel 0.6 or 0.8 mm thick depending on the width and length.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted upon request. •Polyester powder coating: 180 RAL colours upon request.

Perforations on steel *(for scale illustrations: see page 144)*



Sound absorbant insulation

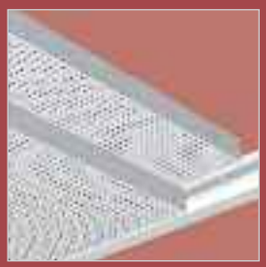
- Black acoustic fleece bonded to the back of the panel on request.

Reservations, integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

Translabac

> Sliding opening panel, positionned above the panels in place

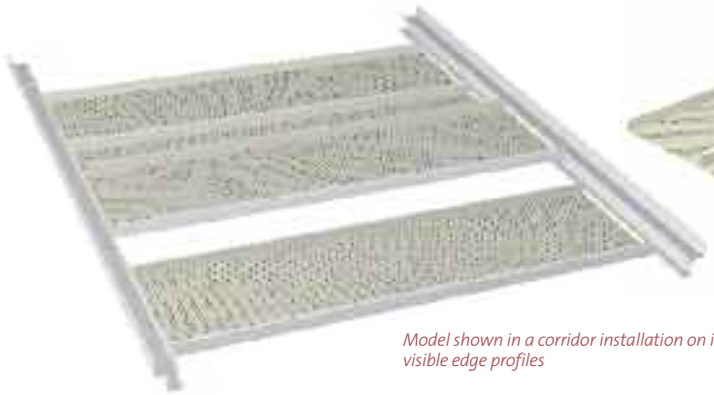


- Designed to be installed on a special visible grid.
- The folded ends combined with special shaped profiles enable the panel to slide above the installed ceiling.
- A specific aluminum profile with hollow joint allows for a beam grid installation.

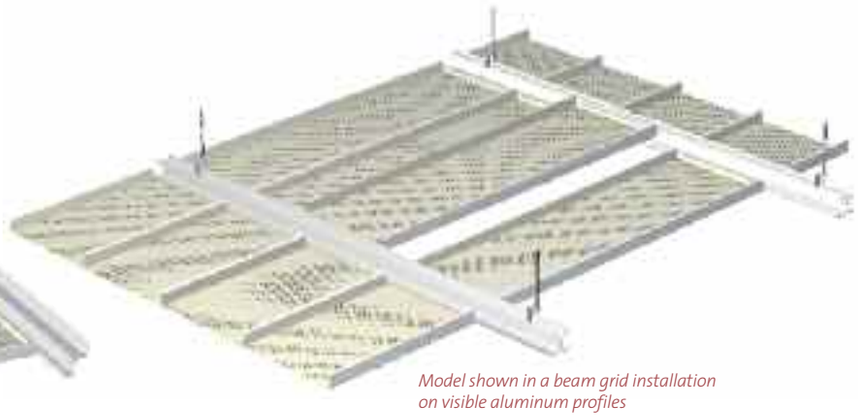
Product benefits

- Length can be adapted as required: no intermediate grid.
- It can remain open in the plenum without impeding movement.
- Absorbs alignment gaps with vertical partitions through of a grid with an offset edge.
- Beam grid installation: its specific aluminum profile with a hollow joint enables fixation of partition wall heads.
- The system offers good airtightness and soundproofing properties.

FOR FREQUENT ACCESS IN CORRIDORS WITHOUT HAVING TO DISASSEMBLE THE PANEL



Model shown in a corridor installation on its visible edge profiles

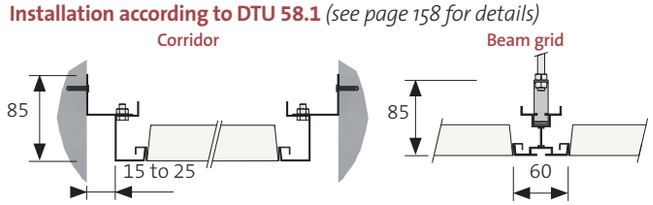


Model shown in a beam grid installation on visible aluminum profiles

Translabac

> Sliding opening panel positionned above the panels in place

Installation according to DTU 58.1 *(see page 158 for details)*



Wall profile to be fixed to the wall and Translabac hinged profile to be bolted

Translabac aluminum profile and hanger

- Note on beam grid installations: the perimeter trim can be finished with the profiles and hollow joint used during the corridor installation, provided that the length of panels (full width) is compatible with the dimensions of the room.

Disassembly for access to the plenum

- The panel is opened by pushing it upwards and then sliding it and setting it down on the top wings of the edge profile. The panel then slides into the plenum above the panels still in place.
  The panel is repositioned in reverse.

Absorption

(see page 150 for details and α_p coefficient per 1/3 octave)

- α_w 0.55 to 0.80 with acoustic fleece depending on perforation.
- α_w 0.65 to 0.85 with polythene wrapped wool depending on perforation.
- α_w up to 1 with other sound absorbant insulations depending on perforation

Reaction to fire *(see page 152 for details)*

- A1 for the prepainted solutions with or without acoustic fleece.
- A2,s1,d0 for the powder coated solutions with or without acoustic fleece.

Light reflection

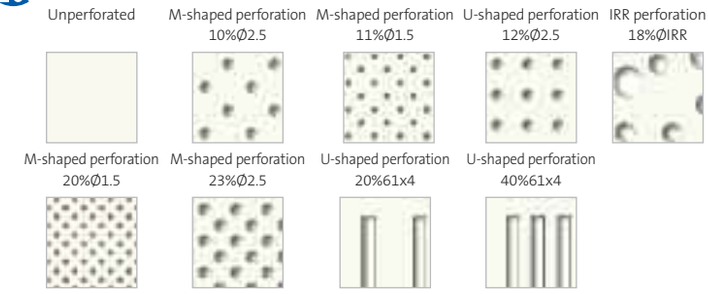
CIE Lab index	Unperforated	11%Ø1.5	20%Ø1.5
White 137 / grey 9006	92.4 / 63.6	88.1 / 60.9	85.7 / -

Environment and health

- Our ceilings can be fully recycled over an indefinite period of time. They are sustainable, easy to maintain, produce no dust, particles or vapour and are inert and odour-free. They do not promote microbial growth and do not emit any VOCs or formaldehydes.
- Indoor air quality (IAQ): 

Panel dimensions	• Widths: 300, 400 and 600 mm. Others available upon request. • Length upon request (min. 800 – max. 2500 mm). • Height: 35 mm. • Max. self-supporting capacity: 2500 mm for a width of 300 mm. Panel connection 35 Square edges
Materials	•Galvanised steel 0.6 or 0.8 mm thick depending on the width and length.
Colours and finishes	•White 137 (≈ RAL 9003) polyester prepainted. •RAL 9006 metallic grey polyester prepainted upon request. •Polyester powder coating: 180 RAL colours upon request.

Perforations on steel *(for scale illustrations: see page 144)*



Sound absorbant insulation

- Black acoustic fleece bonded to the back of the panel on request.

Reservations, integrations *(see page 140 for possibilities)*

- Factory cut outs on request.

Lyon Confluence, client: Unibail-Rodamco, installation companies: Charbonnel and Decostaff.

Shapes

Shaped panels

To create multi-level designs and features

Page 118

Curved panels

To create concave, convex or wavy curves

Page 120

Radial panels

For adapt to radial corridors and floors

Page 122

Corrective / finishing panels

Tor treat or finish ceiling junctions

Page 124

islands

To increase acoustic treatment

Page 126

Customised solutions

For greater freedom of design

Steel stands well above all other materials in offering the greatest flexibility in terms of design and installation. Thanks to our industrial assets and specialised teams, you can release your creative streak and customise your ceilings. Countless customised products and options are available to help you manage interfaces and bring life into your projects.

Take advantage of our vast and unlimited range of essential design solutions. Our sales teams are ready to make your ideas a reality and give them that personal touch.

PLAFOMETAL BENEFITS

- A company with many years of experience and expertise in the metal ceiling sector, and ready to examine your projects and give life to your ideas.
- Three manufacturing sites specialised in customised metal solutions.
- A design office customised metal solutions
- Trained and customer-oriented Sales teams
- Modern, high-performance tools
- Flexible, adaptable and quick to respond.

Interface treatment

Blind box trim, drops

For level changes and facade finishes

Page 128

Recesses

For connections to vertical partitions; for integration of lighting cables

Page 130

Peripheral profiles

Specific, with variable hollow joint, column rings

Page 132

Special profiles

With or without a hollow joint, for partitions and sound barriers

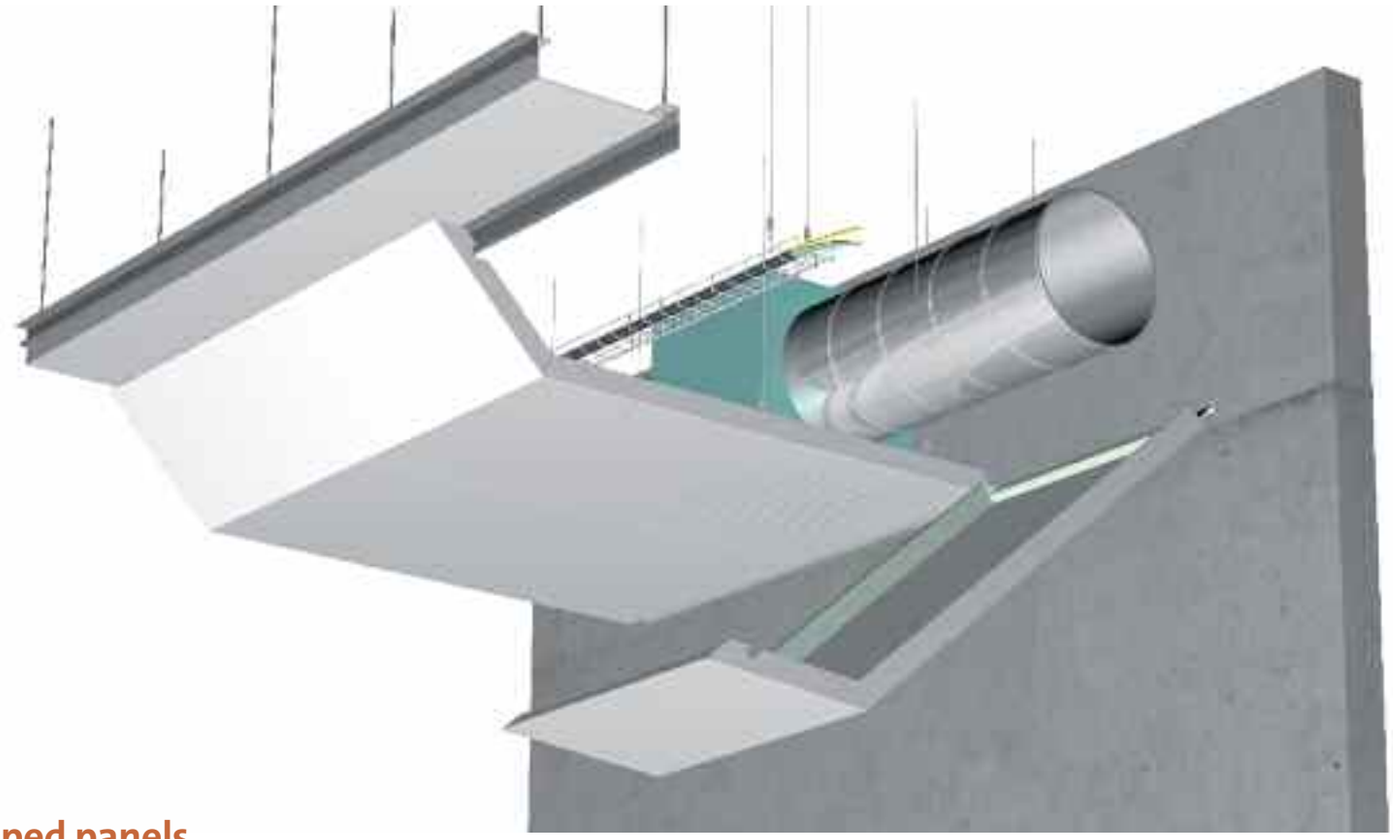
Page 134

Shaped panels

> To create multi-level designs and features

- Shaped panels and accesories are suitable for creating ceilings with varying levels or for incorporating equipement.
- Ceilings installed under concealed grids, bring volume and flawless lines.

Lyon Confluence, client: Unibail-Rodamco, installation companies: Charbonnel and Decostaff.



Shaped panels

> For creating multi-level designs and features

Boxes to be inserted in a sloping ceiling in order to integrate terminals, air vents, light fittings, PA systems, etc.

Removable or swing-down panel with sloping section.

Removable or swing-down panel with integrated vertical return.

Curved panels

> To create concave, convex or wavy curves

- Depending on the required curve, concave and convex panels can be used to produce original designs, while maintaining the functionality of a removable or swing-down ceiling.

Curved panels

> For creating concave, convex or wavy curves

Convex removable or swing-down ceiling
with or without an integrated horizontal recess.

Concave removable or swing-down ceiling with
or without an integrated horizontal recess.

Concave or convex removable or swing-down
ceiling without an integrated horizontal recess.

Radial panels

> To adapt to radial corridors and floors

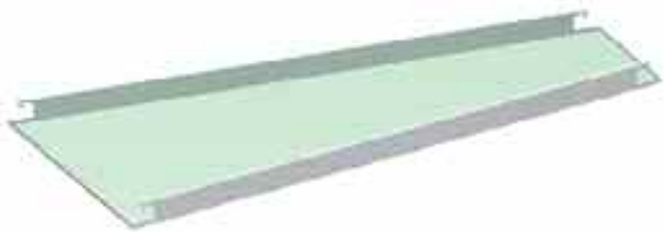
- Radial panels adapt to the layout of curved areas. They can be used across the entire surface or occasionally added between rectangular panels, thereby respecting the architectural appearance of the building.

Radial panels

> To adapt to radial corridors and floors

Trapezoidal self-supporting panel.

Swing-down self-supporting panel;
type: Orial trapezoidal.



Corrective / finishing panels

> Tor treat or finish ceiling junctions

- Finishing panels are used to complete and close spaces where cutting panels is undesirable. They are produced according to a very precise plan realised on site.

Corrective / finishing panels

> For treating or finishing ceiling junctions

Finishing panel with closed and section.

Lay out adjustement panel, variable width.

Finishing panel with integrated vertical return.

Islands

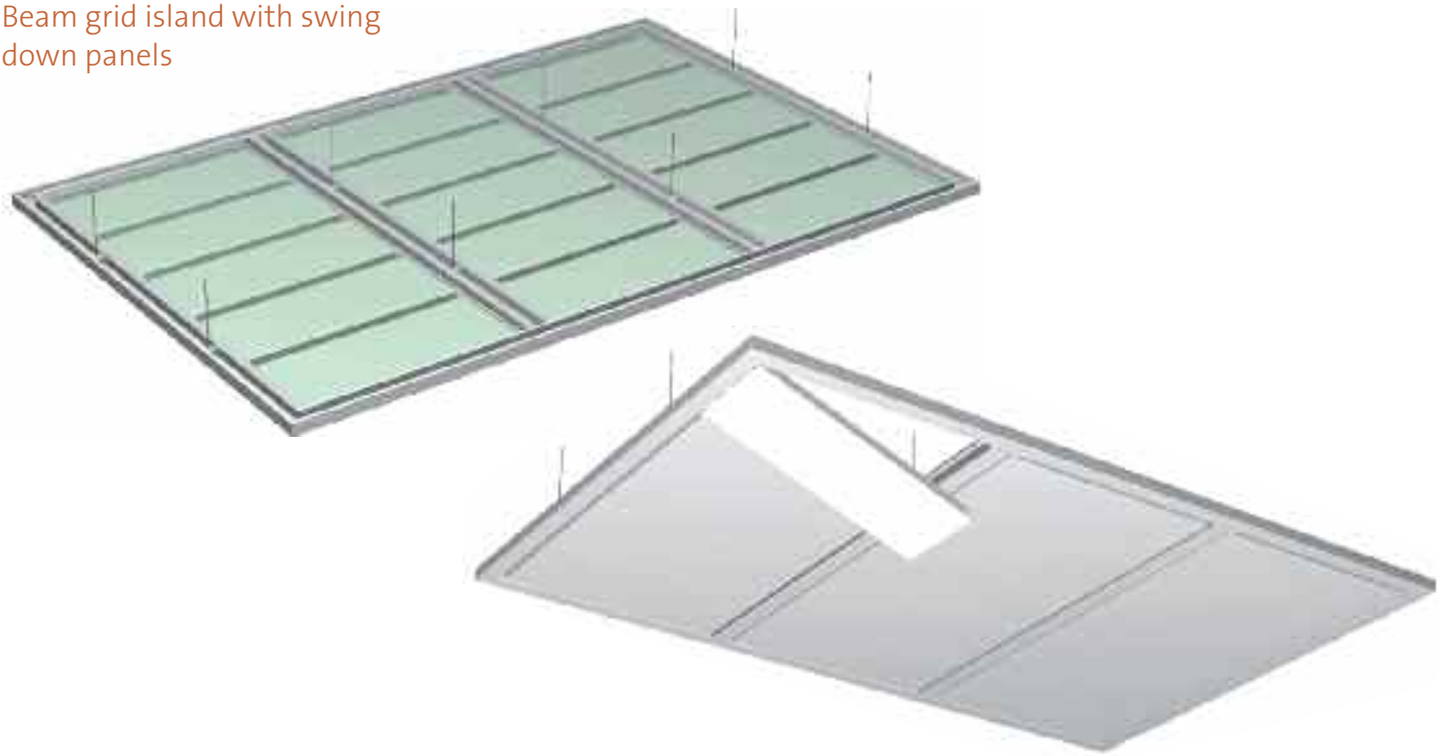
> To increase acoustic correction

- Islands provide an aerial effect, while reinforcing the ceiling's acoustic properties.
- Panels can be fixed, removable or swing-down, allowing complete access to the plenum.
- This type of ceiling is ideal to take advantage of the thermal inertia of the building's concrete structure.

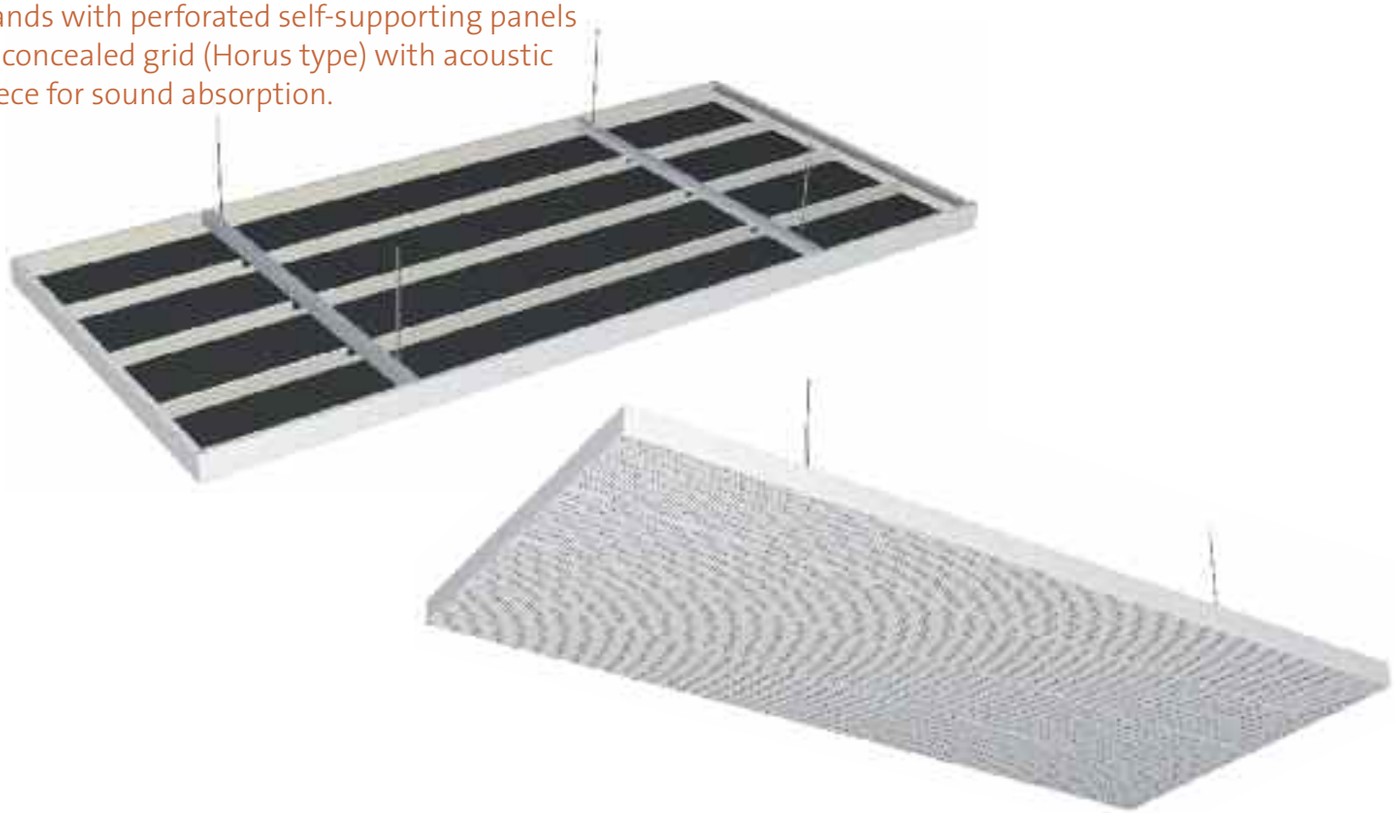
Islands

> For increasing acoustic treatment

Beam grid island with swing down panels



Islands with perforated self-supporting panels on concealed grid (Horus type) with acoustic fleece for sound absorption.



Blind box trim, drops

> For varying level and facade finishes

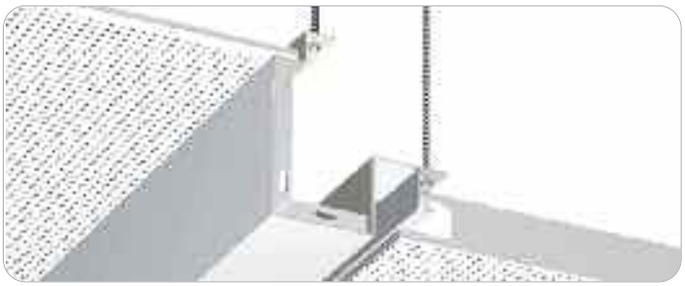
- Metal drops simplify changes in level and can also be used to create blind boxes and overcome any obstacles that would otherwise break the ceiling's continuity.
- They do not require painting after installation since they are produced from materials identical to that of the ceiling.

Level, drops

> For varying level and facade finishes

Partition finishing drop.

Level-change drop.



Partition receiving profile with built-in drop to accomodade height difference between a corridor and an office area.

Tall two-part drop with additional support.

Tall drop for with additional support.

Inclined drop for finishing or changing height.

Recesses

> To connect vertical partitions; to integrat lighting cables

- As with drops, connection boards are finished elements that are sized to complete or trim a ceiling, or designed to receive partitions, light fittings and other fixtures.

Recesses

> For connections to vertical partitions; to integrate lighting cables

Finishing recess with hollow joint on vertical partition.

Finishing recess under sound barrier for receiving removable partition.

Recess with integrated drop for incorporating blinds, light fittings or air vents.

Recess to absorb building span variations.

Finishing recess on vertical partition with double hollow joint.

Recess with lighting cable.

Peripheral profiles

> Specific, with variable hollow joint, column rings

- The peripheral finish of a ceiling is just as important as the ceiling itself. It forms an integral part of the ceiling and must adapt to the different obstacles encountered, whether vertical partitions, facades, beams or round, square or rectangular columns.

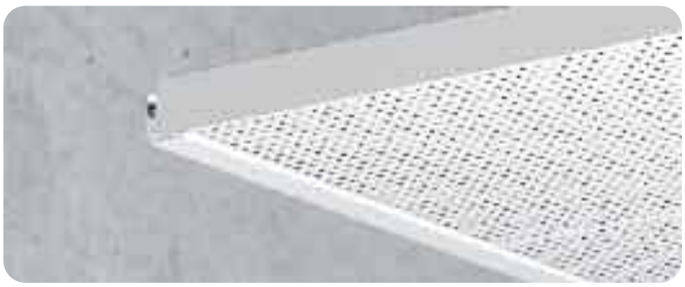
Peripheral profiles > Specific, with variable hollow joint, column rings

Double L type wall angle

Perimeter channel trim

Adjustable two-part double L type wall angle

Edge with “hemmed edges”



Edge with brackets to encircle the column

Curved edge to encircle the column

Special profiles

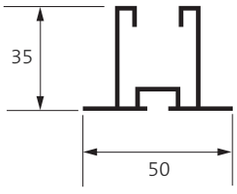
> With or without a hollow joint, for partitions and sound barriers

- Special profiles create a junction between the ceiling elements and the facade span or corridor boundaries.
- These profiles are designed to receive partition ceiling plates and sound barriers
- Plafometal has a wide range of steel and aluminum profiles which can be adapted or modified to suit your needs.

Special profiles

> With or without a hollow joint, for partitions and sound barriers

MATISSE aluminium profile with hollow joint



Metal ceiling with beam grid installation

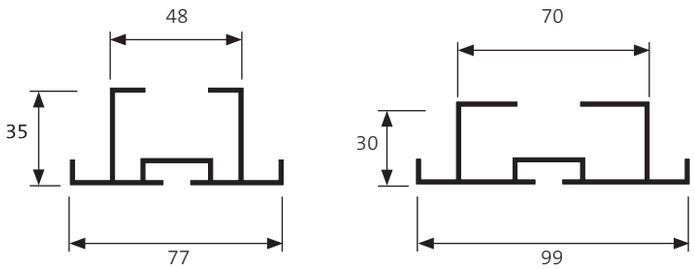
A-edge mineral wool ceiling with beam grid installation

E-edge mineral wool ceiling with beam grid installation

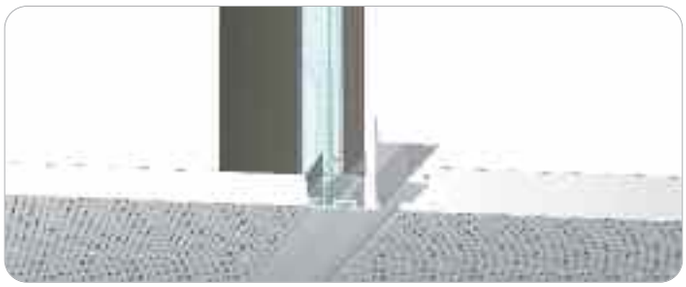
Special profiles

> With or without a hollow joint, for partitions and sound barriers

GAUGUIN aluminium profile with hollow joint

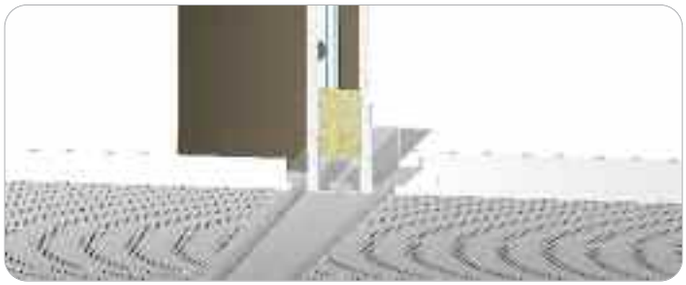


Metal ceiling with beam grid installation

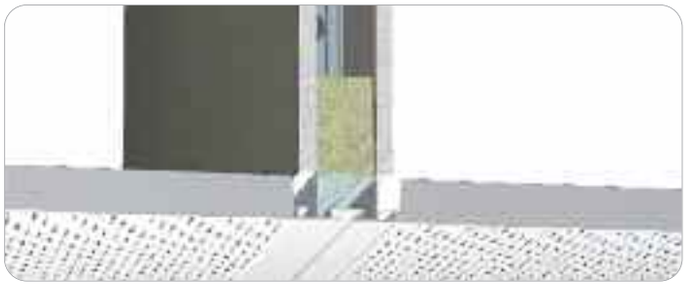


Office / corridor separation limit

Mineral wool ceiling with beam grid installation



Office / corridor separation limit with sound barrier. For lateral attenuation.

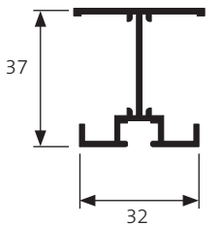


Metal ceiling with beam grid installation and sound barrier. For lateral attenuation between rooms.

Special profiles

> With or without a hollow joint, for partitions and sound barriers

HORUS aluminum profile with hollow joint



Metal ceiling with beam grid installation

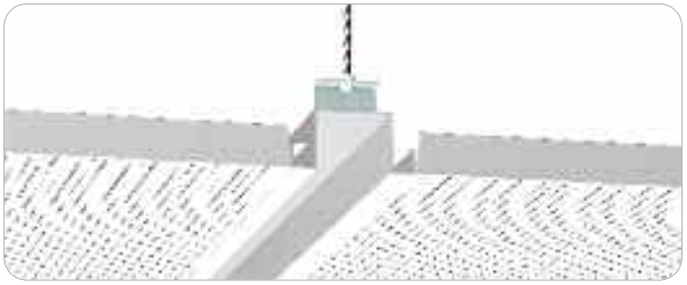
C rail steel profile

Sizes on request

Metal ceiling with beam grid installation

Omega steel profile

Sizes on request



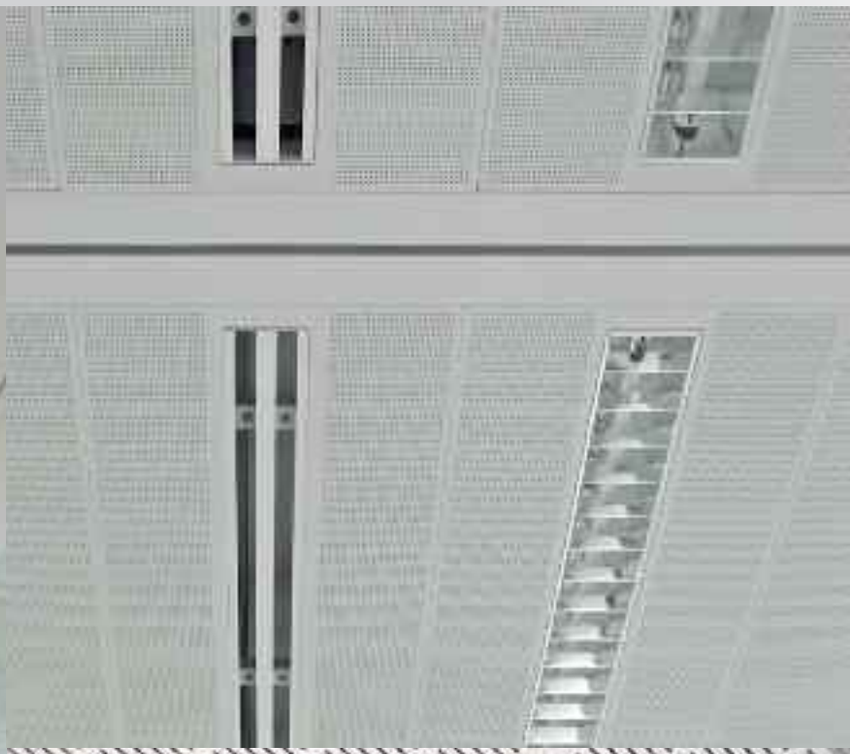
Metal ceiling with beam grid installation

APPENDICES

Cut outs and integrations

> For light fittings, air conditioning, fire detection, air vents, and PA systems.

- **To ensure that the ceiling's finished appearance looks its very best, we perform the required pre-cuts and cut outs for incorporating your equipment and fittings.**
- **Cut outs are available in various shapes and sizes with clean or flanged edges, centred or offset, while special perforations can be provided for air vents, and PA systems.**



Cut outs and integrations

> For light fittings, air conditioning, fire detection, air vents, and PA systems.

Clean cutout for integrating round light fittings.

Clean cutout for integrating rectangular light fittings.

Clean cutout for integrating linear light fittings.

Flanged cutout for integrating rectangular light fittings.

Perforated circular zone for PA systems.

Materials and finishes

> Our metal ceilings are made from the highest quality galvanised steel and aluminum.

Various finishes are available depending on the desired materials, sizes, products and quantities:

- **Polyester prepainted paint** (25 microns); available in matt white (approx. 15% gloss) or metallic grey on steel and in other colours on aluminum products (strips and open cell celing).

- **Polyester powder coated paint** (approximately 80 microns); available in 180 matt colours (approx. 30% gloss) from the RAL colour chart for almost all products (with the exception of strips and open cell celing). Bright colours (approx. 80% gloss) are also available.

Plafometal is only too happy to look at your requirements for ceilings featuring new and innovative materials.

Other materials are also available for innovative and different finishes:

- **Bright annealed stainless steel**
- **TECU® Patina copper**

... and more besides

- *Wood-effect Skinplate coating (SILVAMETAL®)*

Wood-effect Skinplate

Bright, annealed stainless steel

Wood-effect Skinplate

TECU® Patina copper

Perforations

> A perforated metal ceiling is the ideal solution for meeting all acoustic comfort requirements. Perforations are one of the features used to create a flawless ceiling design.

• Plafometal offers a wide range of perforation solutions, which are shown to actual scale in next pages. Other patterns are available upon request.

FOUR CRITERIA THAT CHARACTERISE A PERFORATION

> The perforation ratio or open area percentage

> The shape of the holes

R for round

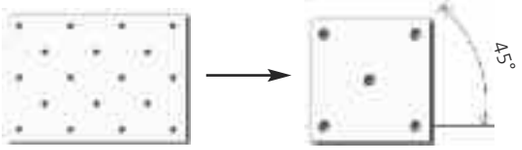
S for square

LR for long and round (oblong)

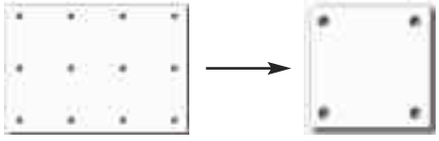
LS for long and square

> The layout of the holes

M shape: regular perforation, staggered at 45°



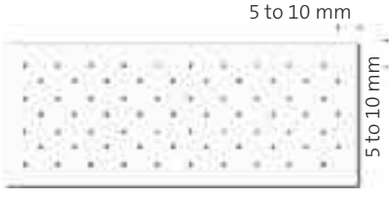
U shape: regular perforation, in-line



Note: other regular or irregular perforations are available.

> The perforation range

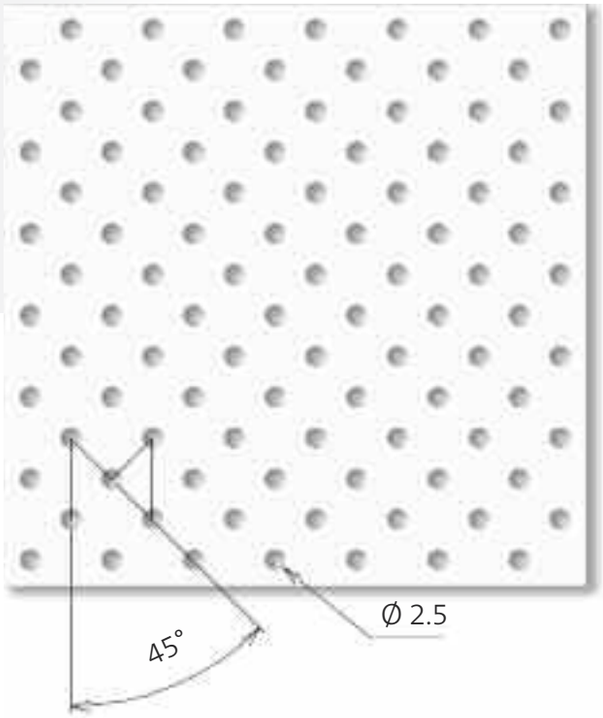
Limited perforation: the perforated zone is discontinued on the four edges of the visible panel, leaving a full peripheral border.



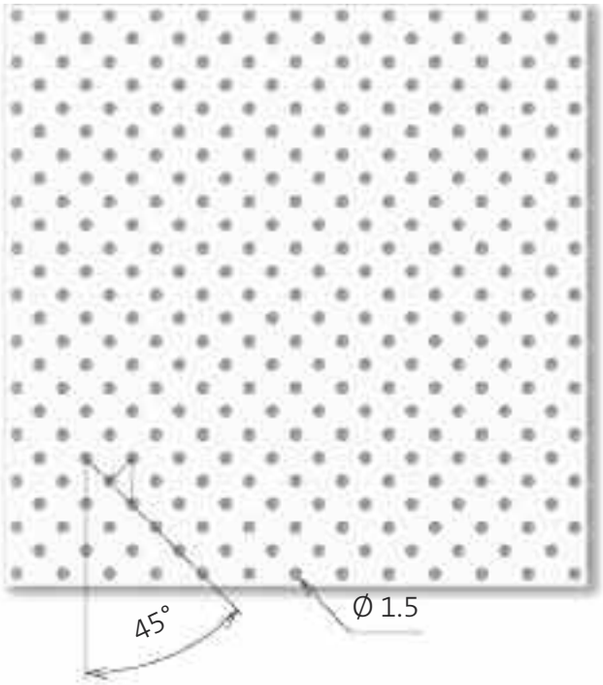
Continuous perforation: the perforated zone is discontinued on the two longitudinal edges and continues to the end of the visible panel.

Full perforation: the perforated zone is completely covered, even in the folds of the visible panel.

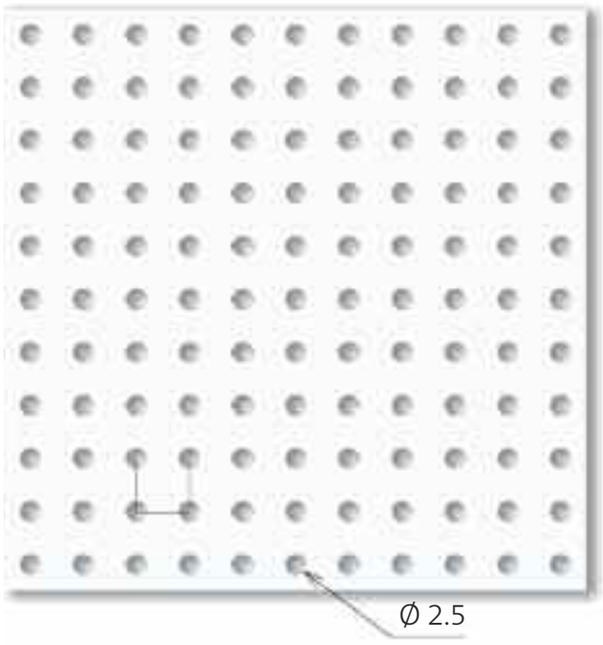
10% Ø 2.5
“M” layout



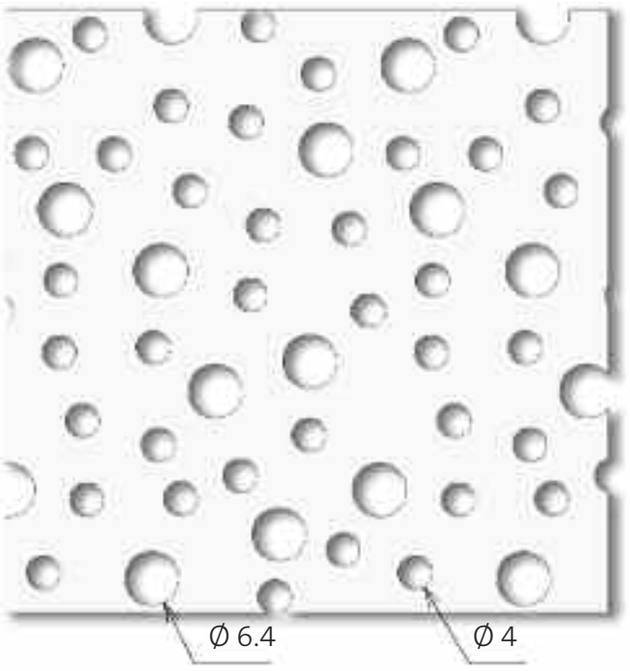
11% Ø 1.5
“M” layout



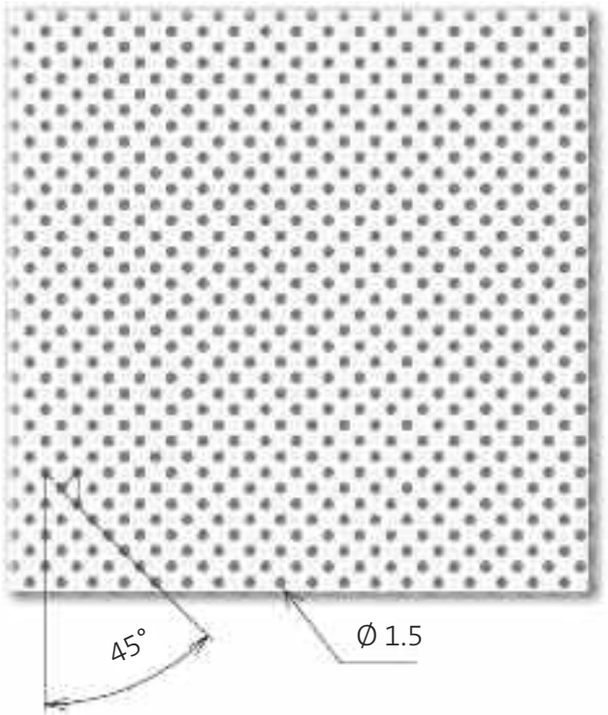
12% Ø 2.5
“U” layout



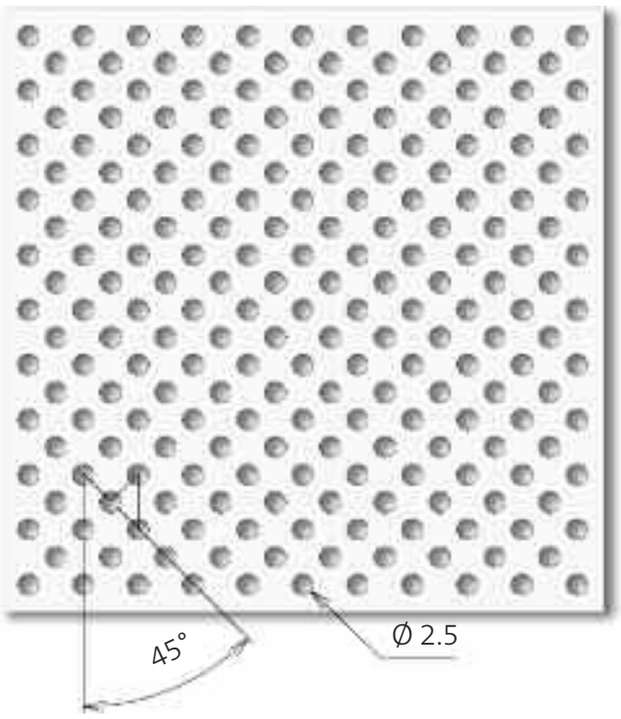
18% IRR
Random layout



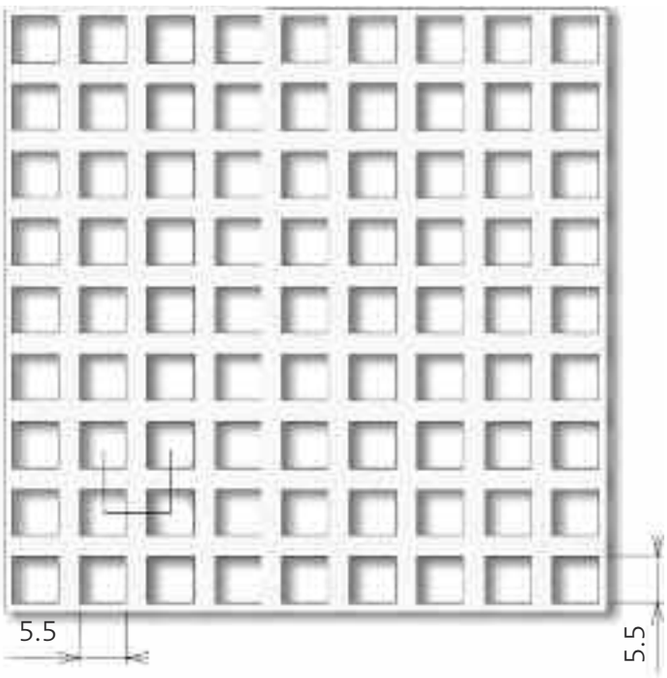
20% Ø 1.5
"M" layout



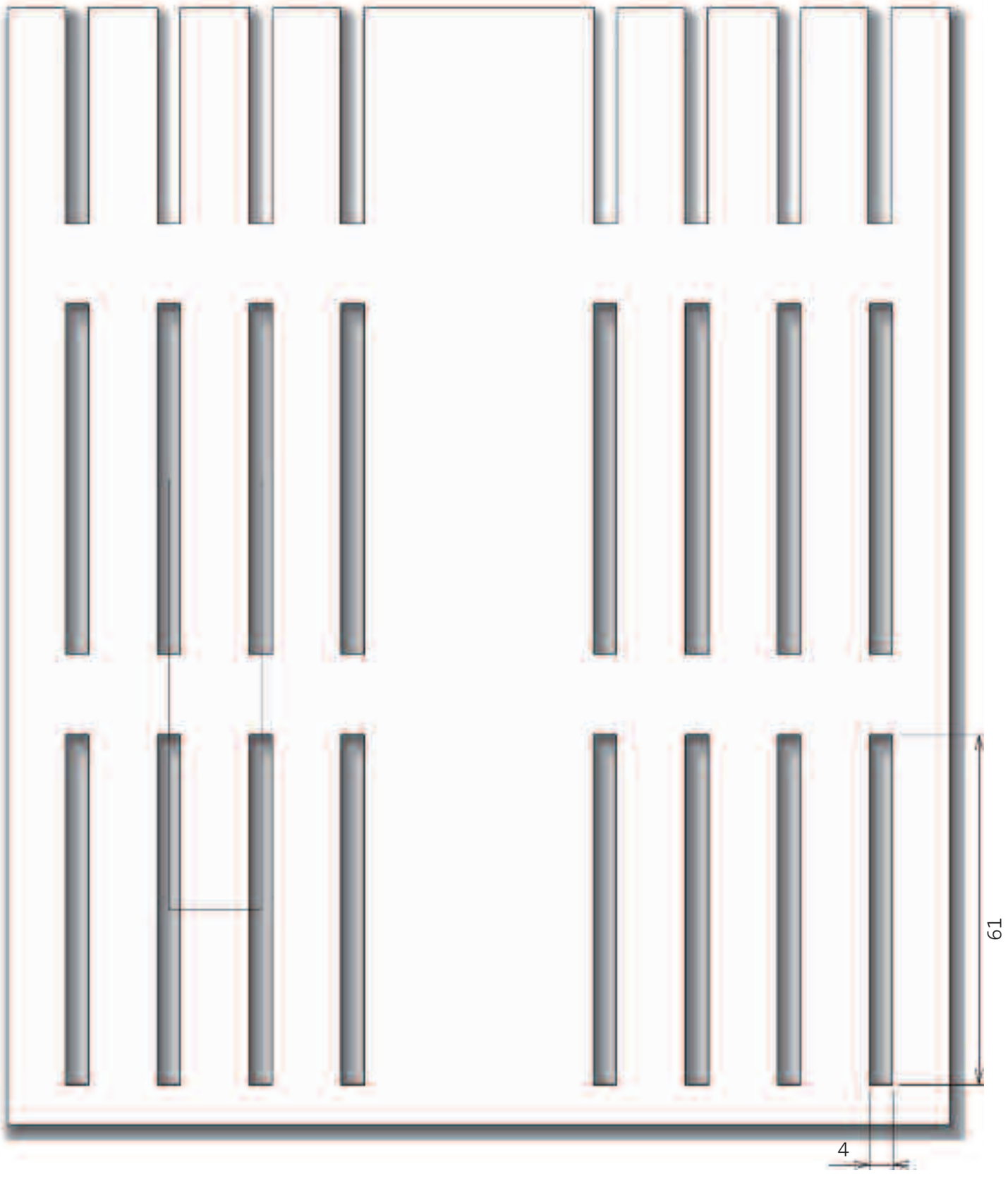
23% Ø 2.5
"M" layout



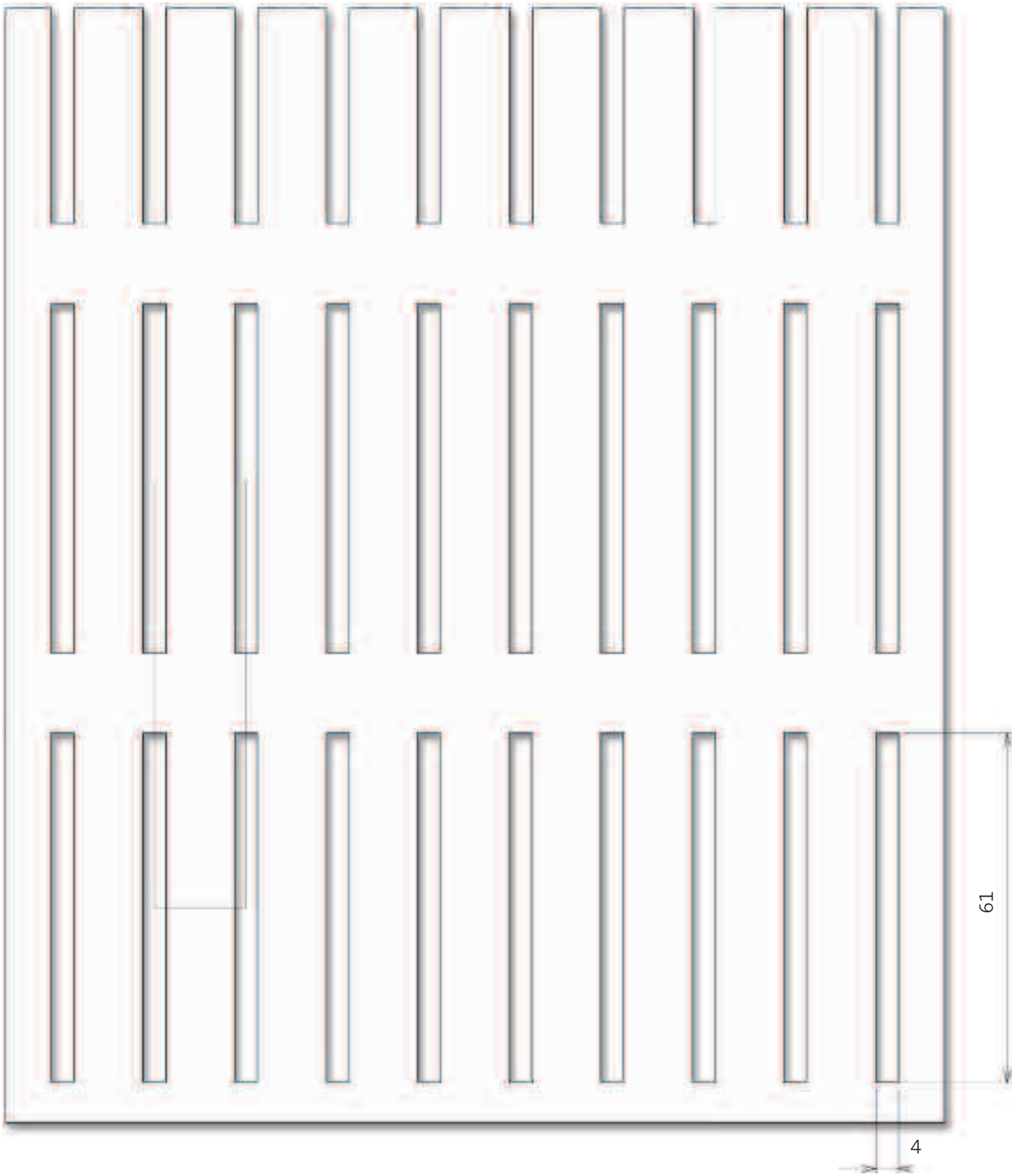
46% 5.5 x 5.5
"U" layout



11% 61 x 4
“U” layout



20% 61 x 4
“U” layout



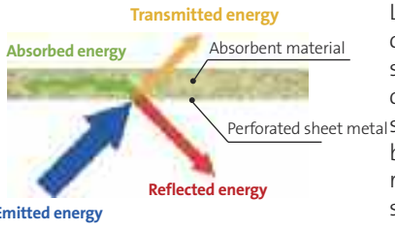
40% 61 x 4
“U” layout

Acoustic comfort

> The ceiling space is the free surface most suited to receive acoustic treatment inside a building.
> Using a sound-absorbing suspended ceiling improves the level of acoustic comfort inside a room. It can also enhance sound insulation between adjacent rooms.

SOUND ABSORPTION

The sound absorption of a suspended ceiling corresponds to its ability to reduce reflected energy and thereby help shorten the reverberation time of sound waves inside a room.



> Indices

A ceiling's sound absorption is measured by means of an α_{Sabine} coefficient, which is calculated using frequency bands according to ISO 354, the α_w weighted coefficient according to ISO 11654, which is a single value used to simplify the process of comparing the absorption performance of one solution with another. These coefficients are between 0 (no absorption) and 1 (total absorption).

> Performance

The perforation solutions used in our metal ceilings are combined with various acoustic add-ons to achieve absorption levels suitable for most spaces:

- Non-woven acoustic fleece thermo-bonded to the back of the panels, with an α_w of 0.55 to 0.80

- Mineral wool pad beneath a polythene film with an α_w of 0.60 to 0.85

Push down flab to hold wool pad into position on request

- Mineral wool pad with a greater thickness and density for an α_w of up to 1

Push down flab to hold wool pad into position on request

LATERAL ATTENUATION

Lateral attenuation corresponds to the suspended ceiling's capacity to reduce sound transmission between adjacent rooms sharing the same plenum space, which is a common construction method in tertiary sector buildings.

> Indices

The lateral attenuation performance of a ceiling can be measured either in a laboratory according to ISO 10848-2 and expressed using the weighted, standardised sound insulation index Dnfw, or in situ according to ISO 140-4 and expressed using the weighted, standardised sound insulation index D_{nTw}. These two indices conform to EN ISO 717-1 and are expressed in dB.

> Performance

The absorption solutions used in our metal ceilings, combined with metal panel top plates (made from sheet steel or plasterboard) on in the plenum, ensure that our metal ceilings deliver superior lateral attenuation.

Refer to the tables opposite for all the tested solutions. Diagrams available upon request.

Acoustic absorption

Perforation	Sound absorptive insulation	Plénum	Test ref.	α_w	Class	p– Frequency in Hz per 1/3 octave band					
						125	250	500	1000	2000	4000
10%Ø2,5	Black acoustic fleece	300	CFI-A-16	0,65	C	0,30	0,45	0,60	0,60	0,65	0,60
	Black acoustic fleece + wool underneath polythene, 25mm, 17 kg/m3	300	CFI-A-18	0,70	C	0,40	0,55	0,70	0,75	0,70	0,60
	Wool underneath polythene 25mm 17 kg/m³	200	CFI-A-43	0,75	C	0,35	0,65	0,75	0,70	0,70	0,65
	Stone Wool 40mm 75 kg/m³	300	CFI-A-19	0,85	B	0,40	0,65	0,85	0,95	0,85	0,85
	Stone Wool 50mm 40 kg/m³	200	CFI-A-42	0,85	B	0,60	0,65	0,95	0,85	0,80	0,70
11%Ø1,5	Without	300	AC14-26049803-19	0,20	E	0,10	0,25	0,15	0,15	0,20	0,25
	Black acoustic fleece	300	AC14-26049803-1	0,80	B	0,50	0,90	0,80	0,75	0,80	0,75
	Wool underneath polythene, 25mm, 17 kg/m³	200	CFI-A-48	0,75	C	0,35	0,65	0,75	0,75	0,75	0,70
	Wool underneath polythene, 25mm, 17 kg/m³ + BA 13 Plasterboard top plate	300	CFI-A-50	0,65	C	0,30	0,40	0,60	0,80	0,80	0,55
	Stone Wool 30mm 60 kg/m³	300	AC14-26049803-6	1,00	A	0,60	1,00	0,95	1,00	1,00	1,00
	Stone Wool 30mm 60 kg/m³ + Steel top plate	300	AC14-26049803-13	0,75	C	0,30	0,45	0,80	1,00	1,00	1,00
	Stone Wool 30mm 60 kg/m³ + BA 13 Plasterboard top Plate	300	AC14-26049803-4	0,75	C	0,35	0,45	0,80	1,00	1,00	1,00
	Stone Wool 40mm 75 kg/m³	200	CFI-A-22	0,85	B	0,50	0,80	0,95	0,80	0,85	0,70
	Stone Wool 50mm 40 kg/m³	200	CFI-A-49	0,85	B	0,55	0,70	0,90	0,85	0,80	0,80
	Stone Wool 50mm 70 kg/m³ + BA 13 Plasterboard top plate	300	AC14-26049803-12	0,95	A	0,40	0,65	1,00	1,00	1,00	1,00
11%61x4	Black acoustic fleece	300	CFI-A-23	0,55	D	0,30	0,50	0,60	0,60	0,55	0,40
	Black acoustic fleece + wool underneath polythene, 25mm, 17 kg/m3	300	CFI-A-26	0,60	C	0,40	0,55	0,70	0,60	0,55	0,45
	Black acoustic fleece + Stone wool 40mm 75 kg/m³	200	CFI-A-27	0,75	C	0,60	0,70	0,90	0,85	0,75	0,55
	Wool underneath polythene 25 mm 17 kg/m³	200	CFI-A-24	0,60	C	0,55	0,70	0,80	0,70	0,60	0,45
	Stone Wool 40mm 75 kg/m³	200	CFI-A-25	0,75	C	0,55	0,75	0,95	0,80	0,75	0,60
12%Ø2,5	Black acoustic fleece	300	CFI-A-28	0,60	C	0,25	0,45	0,55	0,55	0,60	0,60
	Black acoustic fleece + wool underneath polythene, 25mm, 17 kg/m3	300	CFI-A-30	0,70	C	0,55	0,65	0,70	0,70	0,70	0,65
	Wool underneath polythene, 25mm, 17 kg/m³	200	CFI-A-52	0,75	C	0,40	0,65	0,75	0,70	0,70	0,70
	Stone Wool 40mm 75 kg/m³	200	CFI-A-29	0,85	B	0,50	0,75	0,90	0,85	0,80	0,70
	Stone Wool 50mm 40 kg/m³	200	CFI-A-53	0,85	B	0,65	0,75	0,95	0,90	0,85	0,70
18%IRR	Black acoustic fleece	300	CFI-A-58	0,65	C	0,30	0,40	0,65	0,60	0,65	0,65
	Wool underneath polythene, 25mm, 17 kg/m³	300	CFI-A-59	0,75	C	0,40	0,60	0,70	0,75	0,75	0,65
	Stone Wool 50mm 40 kg/m³	200	CFI-A-61	0,85	B	0,65	0,75	0,95	0,85	0,80	0,75
20%Ø1,5	Black acoustic fleece	300	CFI-A-81	0,70	C	0,40	0,55	0,75	0,65	0,65	0,65
	Wool underneath polythene, 25mm, 17 kg/m³	300	CFI-A-83	0,80	B	0,60	0,70	0,85	0,80	0,80	0,65
	Glass Wool 25mm 16 kg/m³	300	CFI-A-82	0,75	C	0,50	0,65	0,75	0,70	0,80	0,75
	Glass Wool 25mm 16 kg/m³ + Stone Wool 25mm 100 kg/m³	300	CFI-A-78	0,80	B	0,55	0,65	0,75	0,85	0,80	0,85
	Glass Wool 25mm 16 kg/m³ + Stone Wool 30mm 60 kg/m³	300	CFI-A-79	0,90	A	0,60	0,85	0,90	0,85	0,90	0,90
	Stone Wool 30mm 60 kg/m³	300	CFI-A-77	0,85	B	0,55	0,65	0,85	0,85	0,85	0,80
	Stone Wool 30mm 60 kg/m³ + steel top plate	300	CFI-A-80	0,70	C	0,35	0,40	0,75	0,80	0,75	0,80
20% 61X4	Black acoustic fleece	200	CFI-A-62	0,55	D	0,25	0,50	0,65	0,50	0,55	0,60
	Black acoustic fleece + wool underneath polythene, 25mm, 17 kg/m3	200	CFI-A-64	0,70	C	0,45	0,70	0,75	0,70	0,70	0,60
	Stone Wool 50mm 40 kg/m³	200	CFI-A-63	0,85	B	0,60	0,75	0,95	0,85	0,85	0,75
23%Ø2,5	Black acoustic fleece	300	CFI-A-31	0,65	C	0,35	0,50	0,65	0,60	0,65	0,60
	Wool underneath polythene, 25mm, 17 kg/m³	200	CFI-A-67	0,75	C	0,40	0,70	0,75	0,70	0,70	0,65
	Wool without polythene 25mm 17 kg/m³	300	CFI-A-33	0,65	C	0,25	0,40	0,60	0,70	0,70	0,70
	Glass Wool 25mm 16 kg/m³	300	CFI-A-34	0,70	C	0,35	0,45	0,65	0,75	0,75	0,70
	Stone Wool 30mm 60 kg/m³	300	AC14-26049803-5	1,00	A	0,60	1,00	0,95	1,00	1,00	1,00
	Stone Wool 40mm 75 kg/m³	300	CFI-A-35	0,85	B	0,45	0,55	0,95	0,90	0,85	0,80
	Stone Wool 50mm 40 kg/m³	200	CFI-A-68	0,85	B	0,65	0,75	1,00	0,85	0,85	0,75
40% 61X4	Black acoustic fleece	200	CFI-A-71	0,65	C	0,35	0,60	0,65	0,60	0,65	0,60
	Black acoustic fleece+ wool underneath polythene, 25mm, 17 kg/m3	200	CFI-A-73	0,70	C	0,45	0,75	0,75	0,65	0,70	0,65
	Stone Wool 50mm 40 kg/m³	200	CFI-A-72	0,90	A	0,60	0,75	1,00	0,90	0,85	0,80
46%5,5x5,5	Black acoustic fleece	300	CFI-A-36	0,55	D	0,30	0,45	0,55	0,50	0,55	0,55
	Wool underneath polythene, 25mm, 17 kg/m³	300	CFI-A-37	0,70	C	0,30	0,50	0,65	0,75	0,75	0,65
	Stone Wool 40mm 75 kg/m³	200	CFI-A-38	0,85	B	0,50	0,80	0,90	0,85	0,80	0,70
Stone Wool only	Stone Wool 40mm 75 kg/m³	300	CFI-A-39	0,90	A	0,45	0,60	0,95	0,95	0,90	0,90

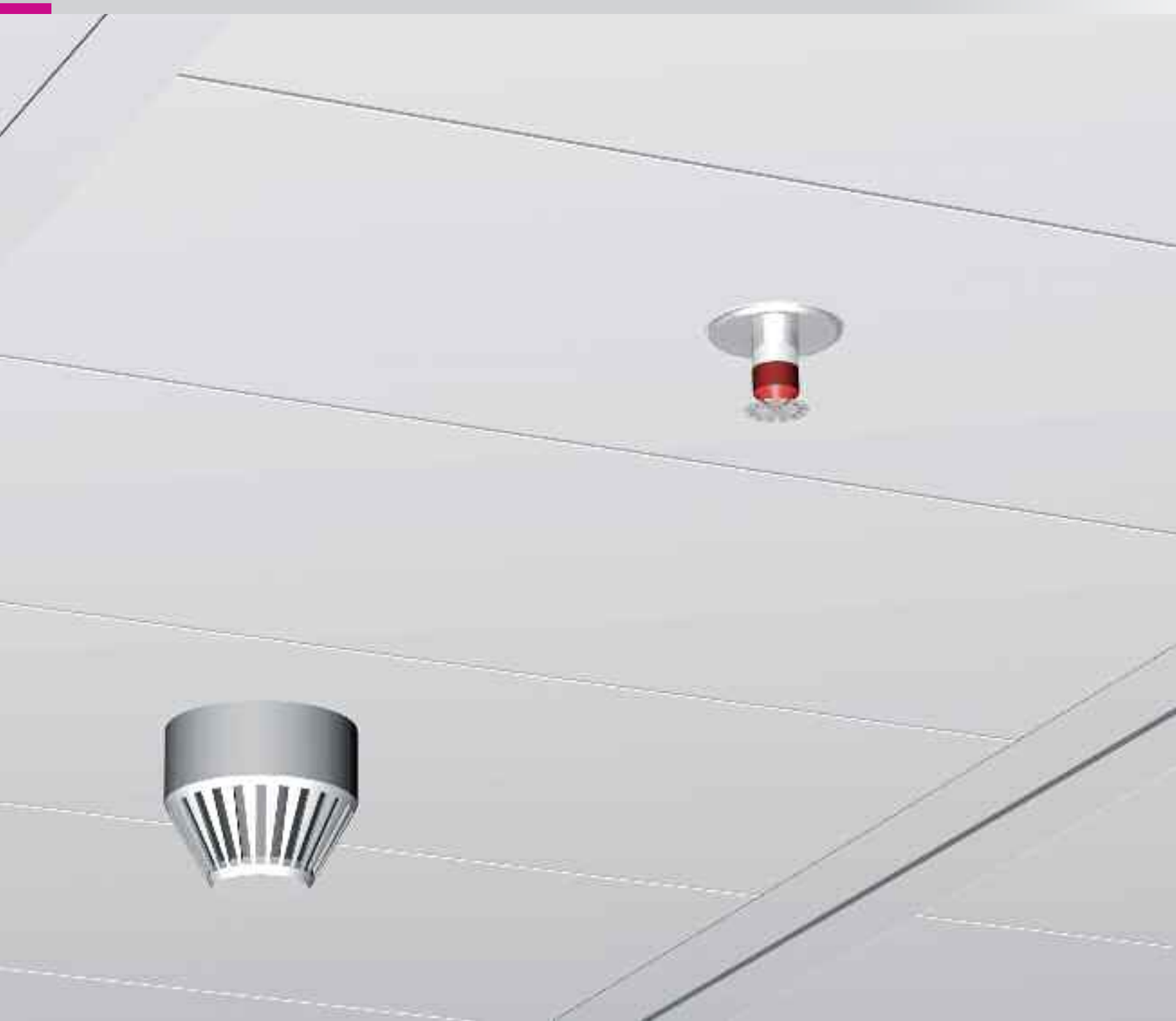
Lateral attenuation

Perforation	Sound absorptive insulation	Plénum	Test ref.	DnT,w (CCtr)	DnT – Frequency in Hz per 1/3 octave band					
					125	250	500	1000	2000	4000
11%Ø1,5	Mineral fibre, 19mm, 350 kg/m3	300	CFI-A-1	41 (-2-7)	21,1	34,9	36,6	46,1	50,2	50,2
	Stone wool, 50mm, 40 kg/m3	300	CFI-A-7	30 (-2-6)	13,0	17,0	27,0	34,0	42,0	46,0
	Glass wool 25mm 16 kg/m³ + Steel top plate + Glass wool 25mm 16 kg/m³	300	CFI-A-9	39 (-1-5)	20,0	26,0	39,0	55,0	65,0	65,0
	Glass wool 25mm 16 kg/m³ + Steel top plate + Glass wool 60mm 15 kg/m³	300	CFI-A-8	49 (-3-9)	27,0	37,0	54,0	60,0	67,0	63,0
	Stone Wool 50mm 40 kg/m³	300	CFI-A-3	31 (-2-7)	15,0	19,0	28,0	35,0	40,0	49,0
	Stone Wool 50mm 60 kg/m³ with aluminium vapour barrier	300	CFI-A-6	39 (-3 -8)	14,0	34,0	30,0	47,0	56,0	62,0
	Glass wool 25mm 16 kg/m³ + Steel top plate + Stone wool 25mm 70 kg/m³	300	CFI-A-4	40 (-2-7)	22,0	28,0	41,0	57,0	65,0	68,0
	Glass wool 25mm 16 kg/m³ + Steel top plate + Glass wool 60mm 15 kg/m³	300	CFI-A-5	48 (-2-7)	25,0	38,0	46,0	60,0	68,0	68,0
	Wool underneath polythene, 25mm, 14 kg/m³ + BA13 plasterboard top plate	300	CFI-A-12	47 (-1-5)	29,4	40,6	42,8	51,4	59,9	61,2
	Wool underneath polythene, 25mm, 14 kg/m³+ BA13 plasterboard top plate + Glass wool 50 mm 17 kg/m³ partition top	300	CFI-A-13	50 (-2-8)	21,1	34,9	36,6	46,1	50,2	50,2

Fire safety

> As is the case in other countries French regulations governing fire safety in buildings describe the preventive measures aimed at protecting individuals, facilitating and improving the response from the emergency services and protecting property. They are specific to the type of building: public buildings, residential buildings, buildings subject to French labour law, high-rise buildings and otherwise.

- **Fire prevention obligations are rated according to two categories: active protection methods, including detectors and sprinklers, and passive protection methods, including construction materials' reaction to fire and construction elements' fire resistance.**



ACTIVE PROTECTION MEASURES

In our factory, we can create cut outs to enable the unvisible addition of fire detectors and sprinklers into most of our ceilings.

In case of suspended open cell ceilings, Section 12.4.14 of EN 12845:2004 relating to “Fixed firefighting systems – Automatic sprinkler systems” stipulates that the total plan open area of the ceiling must not be less than 70% of the ceiling plan area.
It is a common assumption that the ceiling elements only – exclusive of any lighting or equipment – must offer an open area of at least 80%.
Our vertical open cell celings and vertical linear depending on the meshing.

REACTION TO FIRE

Reaction to fire is an intrinsic material property which characterises how the material in question contributes to the development of a fire.

The reaction to fire performance of suspended ceiling elements must be rated according to the standardised European provisions of EN 13501-1 (commonly known as the “Euroclass” standard) since the publication of both the French Regulation of 21 November 2002 relating to the reaction-to-fire performance of construction and development products, and product standard EN 13964 which specifies the requirements and test methods for suspended ceilings.

Regulations governing fire safety and stipulating M categories according to the French standard will gradually be updated to the “Euroclass” system.

In the meantime, a correspondence table described in the French regulation of 21 November 2002 indicates the permissible performance levels according to the regulatory requirements imposed in current texts.

Existing “Euroclass” classifications

Reaction-to-fire performance classes according to the “Euroclass” system	
A1	No contribution to fire, even in case of a highly developed fire
A2	Very small contribution to fire
B	Small contribution to fire
C	Significant contribution to fire
D	High contribution to fire
E	Very high contribution to fire
F	No reaction-to-fire behaviour determined
	Additional criteria for the A2, B, C and D classes
s	**Smoke production** s1: Very low smoke production s2: Limited smoke production s3: High smoke production
d	**Production of flaming droplets / particles** d0: No flaming droplets and/or particles d1: No flaming droplets and/or particles persisting for longer than 10 seconds d2: Flaming droplets / particles

Correspondence between the “Euroclass” system and M categories

Permissible “Euroclass” classifications			Regulatory requirements
A1	-	-	Non-combustible
A2	s1	d0	M0
A2	s1	d1	M1
A2	s2 s3	d0 d1	
B	s1 s2 s3	d0 d1	
C	s1 s2 s3	d0 d1	M2
D	s1 s2 s3	d0 d1	M3
			M4 (drip-free)
All the classes other than E-d2 and F			M4

The “Euroclass” classifications for our metal ceilings have been obtained following a series of fire resistance tests performed at the French Scientific and Technical Centre for Building (classification reports available upon request). Non-lacquered steel and aluminum elements are materials whose behaviour in the presence of fire is both known and stable fire behaviour. They are classified as A1 without any preliminary tests being performed.

Ceiling	Materials and finishes in all colours	Unperforated or perforated without any acoustic add-ons	Perforated with bonded acoustic fleece
Metal tiles	Polyester prepainted steel or aluminum	A1	A1
	Polyester powder prepainted steel or aluminum	A2, s1, d0	A2, s1, d0
	Silvametal® wood-effect PVC-coated steel	Pending	Pending
Linear strips	Polyester prepainted aluminum or steel	A1	A1
	Brushed aluminum	A1	-
	Anodised aluminum	A1	-
	Silvametal® wood-effect PVC-coated steel	Pending	-
Linear panels	Polyester prepainted steel or aluminum	A1	A1
	Polyester powder coated steel or aluminum	A2, s1, d0	A2, s1, d0
Open cell celing	Polyester prepainted aluminum	A1	-
Self-supporting panels	Polyester prepainted steel or aluminum	A1	A1
	Polyester powder coated steel or aluminum	A2, s1, d0	A2, s1, d0
Opening panels	Polyester prepainted steel	A1	A1
	Polyester powder coated steel	A2, s1, d0	A2, s1, d0
Customised solutions	Polyester prepainted steel or aluminum	A1	A1
	Polyester powder coated steel or aluminum	A2, s1, d0	A2, s1, d0
	Silvametal® wood-effect PVC-coated steel	Pending	Pending
	Stainless steel	A1	-

Fire safety

FIRE RESISTANCE

Fire resistance characterises the time during which construction elements perform their expected role despite the effects of a fire.

France

The regulatory requirements for classifying the fire resistance of suspended ceilings in public buildings vary according to whether they are intended to protect the building's structural elements:

- The use of a suspended ceiling as a structural protective shield requires testing according to ENV 13381-1 and an REI-type classification pursuant to the standardised European provisions described in the EN 13501-2 standard.
- A suspended ceiling that plays no role in protecting structural elements against fire but which needs to meet mechanical fire stability requirements (no falling elements), especially in shared horizontal corridors inside high-rise buildings, requires a fire stability (FS) test and classification pursuant to the French Regulation of 22 March 2004, Appendix 1, Section 2.5.

We have several metal ceiling solutions that are specifically geared towards shared horizontal corridors in high-rise buildings and which boast fire stability performance of FS 1/4 h and FS 1/2 h according to tests performed at both the French Scientific and Technical Centre for Building and EFECTIS. Implementation must conform to applicable classification reports and appendices (available upon request) and pursuant to Section 5.6 of French code of practice DTU 58-1, dated December 2008.

Belgium

Regulatory requirements stipulate that a suspended ceiling meeting the mechanical fire stability requirements (no falling elements), for escape routes, areas accessible to the public and collective kitchens, requires fire resistance of 1/2 h pursuant to the NBN 713.020 standard.

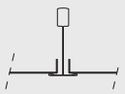
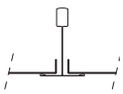
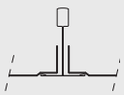
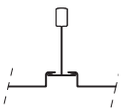
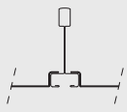
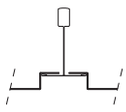
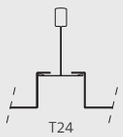
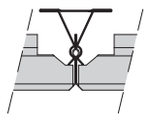
We offer metal ceiling solutions with a fire stability level of FS 1/2 h according to tests performed at of WarringtonFireGent. Implementation must conform to applicable classification and test reports (available upon request).

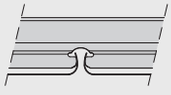
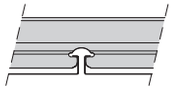
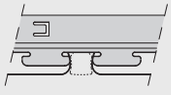
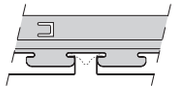
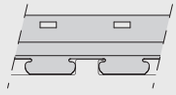
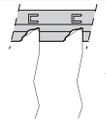
Ceiling	Materials and finishes in all colours	Maximum panel dimensions (mm)	Perforations	Possible sound absorptive insulation	Classifications	
Monobac tiles	Prepainted steel or polyester powder coated	600 x 600	Unperforated or max. 23% with Ø 2.5	Acoustic fleece, stone wool or mineral wool (area weight: max.1.44 kg/m²)	-	FS 1/2 h
Self-supporting panels Pm8, fire resistance	Prepainted steel or polyester powder coated	300 x 2400	Unperforated or max. 17% with Ø 3	Acoustic fleece, stone wool or mineral wool (area weight: max.1.6 kg/m²)	FS 1/4 h and FS 1/2 h	FS 1/2 h
Opening panels Orial, fire resistance	Prepainted steel or polyester powder coated	600 x 1500 depending on thickness	Unperforated or max. 11% with Ø 2.5	Acoustic fleece	FS 1/2 h	-
			max. 12% with Ø 2.5 max. 20% with Ø 1.5	Acoustic fleece	FS 1/4 h	-

FIRE

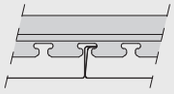
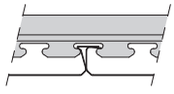
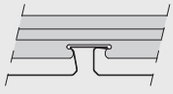
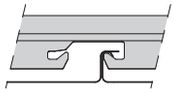
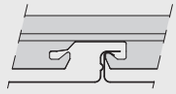
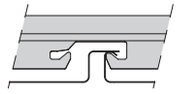
ORIAL, fire resistance

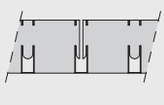
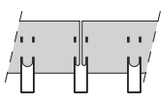
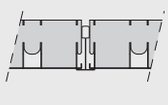
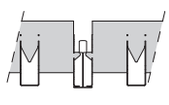
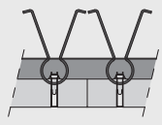
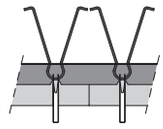
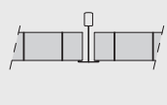
Suspension system selection guide

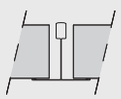
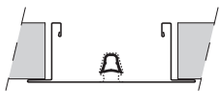
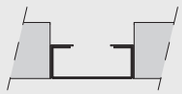
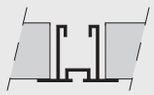
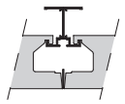
Tiles	Visible grid							Concealed grid
	 T15	 T24	 T24	 T15	 T15, hollow joint	 T24	 T24	 Spring Tee
H0	●	●						
H2			●					
H8				●	●			
H9						●		
H20							●	
Silvametal®	●	●		●	●	●		
Monobac								●

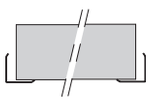
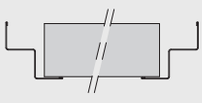
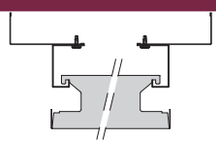
Linear strips	Concealed grid					
	 Runners PPA 85-5	 Runners PPA 85-5	 Runners PPA 35-15	 Runners PPA 35-15 or 30-20	 Runners PPA 35-15	 Runners PPV
Type R*	●		●			
Type U*		●		●		
Type F					●	
Type V						●

** Open hollow joint between strips: can be closed using an inter-strip profile specific to the strip edges (except with PPA 85-5) or by unrolling a black fleece in the plenum space.*

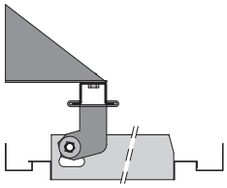
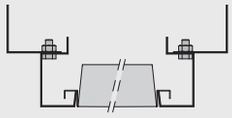
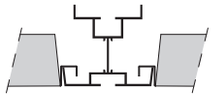
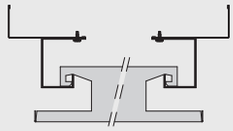
Linear panels	Concealed grid					
	 Runners IPS/JFC	 Runners IPS/F	 Runners IPS / JC15	 Runners PPH 55	 Runners PPH 55	 Runners PPH 55
Modulbac JFC	●					
Modulbac F		●				
Modulbac JC15			●			
Panebac J				●		
Panebac JC3					●	
Panebac JC15						●

Open cell ceiling	Concealed grid						Visible
	 Integrated grid	 Integrated grid	 T15	 T15	 Perforated runners	 Perforated runners	 T15 or T24
Grilum	●						
Grilam i		●					
Grilax – removable			●				
Grilam X – removable				●			
Monoline – removable							●
Grilook – swing-down					●		
Grilam B – swing-down						●	

Self-supporting panels Beam grid installation	Visible grid					Concealed grid
	 T35	 Bandrasters Omega or hollow joint	 C bandrasters	 Gauguin aluminum profiles	 Matisse aluminum profiles	 Horus aluminum profiles
Pm10	●	●			●	
Pm12	●				●	
Pm2 (according to end finish)	●	●	●	●	●	
Pm3 (according to end finish)	●	●	●	●	●	
Pm4 (according to end finish)	●	●	●		●	
Pm5 (according to end finish)			●	●	●	
Horus						●

Self-supporting panels Corridor installation	Visible grid			Concealed grid
	 Wall angles	 Wall angles with hemmed edges	 Double L type wall angles	 Horus wall angles
Pm10	●	●	●	
Pm12	●	●	●	
Pm8 fire resistance*	●	●		
Pm2	●	●	●	
Pm3	●	●	●	
Pm4	●	●	●	
Pm5**	●	●	●	
Horus				●

** Profiles measuring 30 x 30 mm, thickness: 0.8 mm. Please contact us.*
*** Recommended minimum profile thickness: 0.8 mm. Please contact us.*

Opening panels	Visible grid				Concealed grid
	 Aries wall angles	 Axess wall angles	 Translabac wall angles	 Translabac aluminum wall angles in a beam grid installation	 Orial wall angles
Orial					●
Orial, fire resistance*					●*
Aries	●				
Axess		●			
Translabac			●	●	

** Specific profiles for the fire resistance version, with oblong pilot holes for screw-and-nut assembly (self-tapping screws prohibited). Please contact us.*

Installation and maintenance

STORAGE

Our products must be stored on edges, on a flat surface and in a dry place, where they are protected from inclement weather and any risks of impact.

INDOOR IMPLEMENTATION

- Implementation must conform to local instalation reglementions en practices .
- The premises must not be exposed to relative humidity variations exceeding 90%, any temperature fluctuations greater than 30°C or any corrosive pollutants. These exposure conditions are covered by our solution offering a class B protection against corrosion pursuant to EN 13964. Otherwise, please contact us for a ceiling with class C or D corrosion protection.

OUTDOOR IMPLEMENTATION

Specific precautions must be taken.

- Choice of products: it is important to choose from our catalogue the products which have been designed for this type of use. Refer to the linear strip, linear panel and Monobac product sheets. Other customised solutions can be examined upon request.
- Choice of materials: depending on the atmospheric conditions – humidity, temperature, industrial air or sea air – you should choose adapted organic materials and coatings which offer protection against class B, C or D corrosion pursuant to EN 13964 or category RC4 according to EN 10169 in case of harsher conditions.
- Installation design: it is important to determine the degree of wind exposure on a case-by-case basis. Generally speaking, you should allow for 0.5 to 1 m between hangers and runners. An anti-lifting cover should be installed on at least every other hanger. We advise using washers between the threaded rod and the runner. Leave out gap covers at the bottom for strips.
  In any case, our ceilings must be protected from rain and run-off.

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

Please contact us for more information.

Normative references: EN 13964 and EN 10169

Class	Atmosphere	Materials and finishes used in our solutions	Exemples of applications*	
			Interior	Exterior
B	< 90% RH Δt° < 30°C No corrosive pollutants	Galvanised steel Z100, polyester prepainted, 25 m on one side Galvanised steel Z100, polyester powder coated, 80 m on one side Silvametal® wood-effect PVC-coated galvanised steel	Heated buildings with a clean atmosphere: offices, shops, schools, hotels...	Protected zones with good climatic conditions and no corrosive pollution or salinity
C	< 90% RH + risk of condensation	Galvanised steel Z100, polyester prepainted, 25 m on two sides Galvanised steel Z100, polyester powder coated, 80 m on two sides Brushed aluminum, anodised or polyester prepainted, 25 m on one side	Non-heated buildings where condensation may form: multi-purpose rooms, gyms, premises where steam is produced...	Humid zones with no salinity
D / RC4	> 90% RH + risk of condensation + corrosive pollutants	Galvanised steel Z225, polyester prepainted, 35 m on one side	Chemical factories, swimming pools, coastal shipyards...	Industrial and coastal zones with moderate salinity

** The examples given are for information purposes only. This does not discharge the contractor and client from their responsibility for verifying or having verified the actual conditions under which the ceiling will be installed, submitting these conditions to Plafometal for its opinion prior to installation and referring to the detailed product data sheets provided by Plafometal, that the ceiling can be installed under known exposure conditions.*

ON-SITE CUT OUTS

Our ceilings can easily be cut with appropriate tools: electric nibbler, manual shears, angle grinder, fine-tooth saw and hole saw for small-diameter cuts

Note: in case of ceilings with class C or D protection against corrosion, you must apply a coat of polyester or epoxy paint on the exposed section of steel after cutting.

RULES FOR CORRIDOR INSTALLATIONS

- Self-supporting panels on wall angles: allow sufficient clearance on both sides for easy removal.
- Horus self-supporting panels on a concealed grid: a hollow joint at the edge measuring at least 15 mm must be provided on both sides to enable the panel to be disassembled.
- Orial opening panels: a hollow joint at the edge measuring at least 25 mm must be provided on both sides to enable the panel to swing down.

PROTECTIVE FILMS

Most of our ceilings are delivered with a film to protect the coating during the various transformation and handling phases.

This film must be removed during installation.

Note: the arrow on the film of certain finishes, such as the RAL 9006 metallic grey prepainted finish or the brushed stainless steel finish, indicates the direction of installation required to ensure colour is uniforme.

MAINTENANCE AND CLEANING

By nature, our metal ceilings require only minimal maintenance.

Ceilings can be cleaned in various ways:
- To remove dust, use a soft brush or a vacuum cleaner with a non-abrasive nozzle.
- For pencil or similar marks, simply use an eraser.
- For greasy stains, use a cloth slightly dampened with a surfactant, taking care not to get the insulation material wet.
- For other stains or dirty marks, use a damp cloth or sponge, taking care not to get the insulation wet.

Never use abrasive products.

If using chemical products, always test on a concealed part of the ceiling.

Please contact us if you would like to use disinfectant solutions.

REPAINTING A CEILING

Ceilings can be repainted if they are not perforated or lined with an acoustic fleece. In any case, you must use appropriate, high-quality products. However, repainting will invalided the ceiling's reaction-to-fire classification, as well as its light reflection performance and its indoor air quality (IAQ) classification.

Specification guidelines

Metal Tile H0

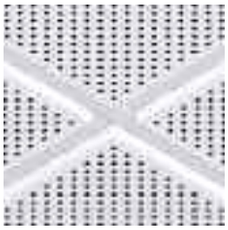
The suspended ceiling will be created using PLAFOMETAL H0 metal tiles measuring 600 x 600 mm or 1200 x 600 mm, in white or 9006 grey prepainted steel, with a thickness of 5/10 (for aluminum, the prelacquer is either matt white or high-gloss white with a thickness of 6/10), plain or perforated. Perforated panels will be lined with a black acoustic fleece, which is thermo-bonded in the factory, or with an insulating material to ensure overall sound absorption. The perforation will be discontinued on the four edges of the tile. The ceiling will be fitted on a system of white or coloured T15 or T24 grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of crossrunners measuring 1200 mm and 600 mm. A channel trim in the same colour as the grid will ensure a peripheral finish at the walls and partition walls. Tiles will rest on the grid, which will remain fully visible. Installation shall conform to the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

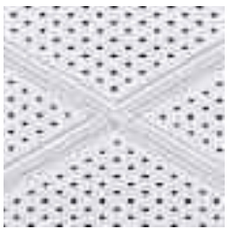
Metal Tile H0 Silvametal®

The suspended ceiling will be created using H0 SILVAMETAL® metal tiles measuring 600 x 600 mm, in coated steel with a coloured maple or a pear tree PVC film, have a thickness of 65/100 and are either Unperforated or perforated. The perforated panels will be coated with a black acoustic fleece, which is thermo-glued in the factory, to ensure the acoustic absorption of the assembly. The 5% Ø2.5 in-line perforation will be discontinued on the four sides of the slab. The ceiling will be implemented on a system of black or 9006 grey T15 or T24 grids, which consist of suspended runners. The grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, which will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Metal Tile H2

The suspended ceiling will be created using H2 metal tiles measuring 600 x 600 mm or 1200 x 600 mm, in white or 9006 grey prepainted steel, have a thickness of 5/10 (for aluminum, the prelacquer is either matt white or high-gloss white with a thickness of 6/10) and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be discontinued on the four sides of the slab. The ceiling will be implemented on a system of white or coloured T24 grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of spacers measuring 1200 mm and 600 mm. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, with their underside flush with the bottom of the grid. The grid will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.





Metal Tile H8

The suspended ceiling will be created using H8 metal tiles measuring 600 x 600 mm or 1200 x 600 mm, in white or 9006 grey prepainted steel, have a thickness of 5/10 (for aluminum, the prelacquer is either matt white or high-gloss white with a thickness of 6/10) and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be discontinued on the four sides of the slab. The ceiling will be implemented on a system of white or coloured T15 or T15 hollow joint grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of spacers measuring 1200 mm and 600 mm. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, creating a 15 x 8 hollow joint for installation on a T15 grid or resting flush with the bottom of the grid for installation on a T15 hollow joint grid. The grid will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Metal Tile H8 Silvametal®

The suspended ceiling will be created using H8 SILVAMETAL® metal tiles measuring 600 x 600 mm, in coated steel with a coloured maple or a pear tree PVC film, have a thickness of 65/100 and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, to ensure the acoustic absorption of the assembly. The 5% Ø2.5 in-line perforation will be discontinued on the four sides of the slab. The ceiling will be implemented on a system of black or 9006 grey T15 or T15 hollow joint grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of spacers measuring 1200 mm and 600 mm. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, creating a 15 x 8 hollow joint for installation on a T15 grid or resting flush with the bottom of the grid for installation on a T15 hollow joint grid. The grid will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Metal Tile H9

The suspended ceiling will be created using H9 metal tiles measuring 600 x 600 mm or 1200 x 600 mm, in white or 9006 grey prepainted steel, have a thickness of 5/10 (for aluminum, the prelacquer is either matt white or high-gloss white with a thickness of 6/10) and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be discontinued on the four sides of the slab. The ceiling will be implemented on a system of white or coloured T24 grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of spacers measuring 1200 mm and 600 mm. A peripheral runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, creating a 24 x 9 hollow joint. The grid will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Metal Tile H9 Silvametal®

The suspended ceiling will be created using H9 SILVAMETAL® metal tiles measuring 600 x 600 mm, in coated steel with a coloured maple or a pear tree PVC film, have a thickness of 65/100 and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, to ensure the acoustic absorption of the assembly. The 5% Ø2.5 in-line perforation will be discontinued on the four sides of the slab. The ceiling will be implemented on a system of black or 9006 grey T24 grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of spacers measuring 1200 mm and 600 mm. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, creating a 24 x 9 hollow joint. The grid will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Metal Tile20

The suspended ceiling will be created using H20 metal tiles measuring 600 x 600 mm or 1200 x 600 mm, in white or 9006 grey prepainted steel, have a thickness of 5/10 (for aluminum, the prelacquer is either matt white or high-gloss white with a thickness of 6/10) and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be discontinued on the four sides of the slab. The ceiling will be implemented on a system of white or coloured T24 grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of spacers measuring 1200 mm and 600 mm. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, creating a 24 x 20 hollow joint. The grid will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Monobac clip in metal tile

The suspended ceiling will be created using MONOBAC metal tiles measuring 600 x 600 mm or 1200 x 600 mm, in white or 9006 grey prepainted steel, have a thickness of 5/10 (for aluminum, the prelacquer is either matt white or high-gloss white with a thickness of 6/10) and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be discontinued on the four sides of the slab. The ceiling will be implemented on a system of grids, which consist of primary elements suspended on the structure using a fixation device adapted to the support and secondary elements clipped onto the primary elements every 600 mm. A runner in the same colour as the panels will guarantee peripheral finishing at the walls and partition walls. The slabs will be clipped onto the grid and will form a cell with a pitch measuring 600 x 600 mm or 1200 x 600 mm. The grid will be fully concealed. Removal of the slabs for accessibility purposes must be performed with care and we strongly advise using specific tools. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Monobac for outdoor installation

The suspended ceiling will be created using MONOBAC metal tiles measuring 600 x 600 mm or 1200 x 600 mm, in white or 9006 grey prepainted steel, have a thickness of 5/10 (for aluminum, the prelacquer is either matt white or high-gloss white with a thickness of 6/10) and are either Unperforated or perforated. The ceiling will be implemented on a system of grids, which consist of primary elements suspended on the structure using a fixation device adapted to the support and secondary elements clipped onto the primary elements every 600 mm. The panels will be immobilised using a safety bracket AC511. A runner in the same colour as the panels will guarantee peripheral finishing at the walls and partition walls. The slabs will be clipped onto the grid and will form a cell with a pitch measuring 600 x 600 mm or 1200 x 600 mm. The grid will be fully concealed. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

R-type linear strips

The suspended ceiling will be created using 85R strips from PLAFOMETAL, which measure 85 mm wide at the rounded section, in prepainted aluminum and have a thickness of 5/10 or 6/10. One smooth side or perforated. 14 colours to choose from (see the colour chart). The strips clip onto the carrier PPA 85-15 for an open gap of 15 mm or onto the PPA 90-5 for an open gap of 5 mm. They are disassembled by means of applying light lateral pressure. The 15 mm open area can be closed using an inter-strip cover of the same or a different colour or by means of unrolling a non-woven, black glass fleece. A glass wool mattress unrolled on the strips ensures acoustic correction. An wall angle or edge runner will guarantee peripheral finishing at the walls and partition walls. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

U-type linear strips

The suspended ceiling will be created using U-type horizontal profiles from PLAFOMETAL, which are known as U strips, in prepainted aluminum and have a thickness of 5/10 or 6/10. In certain cases, they also come in steel for robustness reasons. The height and width of the strips varies from 11 to 40 mm and 30 to 185 mm respectively, creating pitches of 50 mm to 200 mm. The length is based on customer requests. The gaps between strips will measure from 5 mm to 20 mm and can be bridged using an inter-strip or blocked using a non-woven, black or coloured fleece, thus creating a more pronounced hollow joint. Accessories, such as hatches or connector boards, complete the range. Perforations with a glued black fleece offer better acoustics.

F-type linear strips

The suspended ceiling will be created using strips with a 15 mm closed hollow joint from PLAFOMETAL, which have an underside measuring 85, 135 or 185 mm wide at the squared section, in prepainted aluminum and have a thickness of 5/10 or 6/10. One smooth side or perforated. 14 colours to choose from (see the colour chart). The strips clip onto the carrier PPA 85-15. A glass wool mattress unrolled on the strips ensures acoustic correction. An wall angle or edge runner will guarantee peripheral finishing at the walls and partition walls. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For any specific application, the user must seek assurance from PLAFOMETAL that the technical characteristics comply with the intended usage.

V-type linear strips

The suspended ceiling will be created using vertical profiles, which are known as V100 strips and in prepainted aluminum, from PLAFOMETAL. They are 100 mm tall, 0.5 mm thick and coloured white and 9006 grey on both sides. Other colours available upon request. Heights of 150 mm and 200 mm are also possible upon request. Depending on the grid, the length is between at least 1000 mm and roughly 7000 mm. The pitch of the strips is at least equal to the strip height so as to conceal the roof space. Couplers enable covering of larger areas. The ceiling will be implemented by installing black runners every 1400 mm at most, suspending them on the structure using a fixation device adapted to the support such that they are perpendicular to the strip. Peripheral finishing is performed without the need for any accessories, as the strip is simply straight-cut. Precise layout eliminates the need for any on-site cutting thanks to fact that the strips overlap one another. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Modulbac JFC

The suspended ceiling will be created using JFC self-supporting metal panels from PLAFOMETAL, which are 150 mm, 200 mm or 300 mm wide, in white or 9006 grey prepainted steel or aluminum (other colours available upon request), have a thickness of 5/10, 6/10 or 7/10 (aluminum), and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute angles and overlap on their longitudinal sides. Their extremities are open-ended. The ceiling will be implemented as a self-supporting structure on a grid system adapted to the grid: wall angle, wall angle with hollow joints, T35, smooth plate, omega, possibility of clipping the panel onto its adapted IPS/JFC carrier if the self-supporting limit has been exceeded. A runner or an wall angle will guarantee peripheral finishing at the walls and partition walls. The panels will rest on the grid, which will remain fully visible. Implementation will comply with the specifications set out in the NFP 68 203 1 and 2 standards, DTU [Standardised Technical Document] 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Modulbac F

The suspended ceiling will be created using F clipped metal panels from PLAFOMETAL, which are 150 mm, 200 mm or 300 mm wide, in white or 9006 grey prepainted steel or aluminum (other colours available upon request), have a thickness of 5/10, 6/10 or 7/10 (aluminum), and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at chamfered angles and overlap on their longitudinal sides. Their extremities are open-ended. The ceiling will be implemented by being clipped onto its concealed IPS/F carrier to form a flat and airtight assembly which is perfectly adapted to outdoor installation. A runner or an wall angle will guarantee peripheral finishing at the walls and partition walls. Implementation will comply with the specifications set out in the NFP 68 203 1 and 2 standards, DTU [Standardised Technical Document] 58-1.
For any specific application, the user must seek assurance from PLAFOMETAL that the technical characteristics comply with the intended usage.
The ceiling will be implemented by installing black PPA-type runners made of steel or aluminum with a centre distance of 1200 mm depending on the type of strip used for the interior. The carrier will be suspended on the structure using a fixation device adapted to the support. The carrier will be precisely positioned such that it is perpendicular to the strips. Peripheral finishing is performed using an wall angle or a runner, allowing the strip to be positioned in a more aesthetically pleasing manner. Outdoor installation is also feasible under more restrictive conditions. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Modulbac JC15

The suspended ceiling will be created using JC15 clipped metal panels from PLAFOMETAL, which are 200 mm or 300 mm wide, in white or 9006 grey prepainted steel or aluminum (other colours available upon request), have a thickness of 5/10, 6/10 or 7/10 (aluminum), and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will feature 15 mm closed hollow joints at chamfered angles and overlap on their longitudinal sides. Their extremities are open-ended. The ceiling will be implemented by being clipped onto its concealed IPS/F carrier to form a structured and airtight assembly which is perfectly adapted to outdoor installation. A runner or an wall angle will guarantee peripheral finishing at the walls and partition walls. Implementation will comply with the specifications set out in the NFP 68 203 1 and 2 standards, DTU [Standardised Technical Document] 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Panebac J / JC3 / JC15

The suspended ceiling will be created using J-type joined horizontal profiles from PLAFOMETAL, which are known as Panebac J, in prepainted aluminum or steel and have a thickness of 5/10 to 7/10. Available from a height of 30 mm, for a width of 150, 200 or 300 mm and lengths from at least 1000 mm to roughly 7000 mm are available upon request. A perforated panel delivers varied acoustic performances depending on the types of perforation and the padding – whether a panel with wool or with acoustic fleece. The standard colours are white, 9006 grey and a variety of RAL colours. The JC3 panel has a longitudinal lug which forms a 3 mm joint between panel. The JC15 panel forms a 15 mm joint and offers good demonstrability. The ceiling will be implemented by installing steel or aluminum PPH-type runners measuring 55 mm tall with a maximum interior centre distance of 1400 mm, suspending them on the structure using a fixation device adapted to the support such that they are perpendicular to the panels. Installation can also be performed without runners for lengths of less than 2400 mm (for the 300 J and J3 panels only). Grid formation installation implies that runners will be set up. Peripheral finishing is performed using a Z40 or L40 wall angle with a hollow joint and clips, or even using a U 30 runner in the same colour, allowing the strip to be positioned in a more aesthetically pleasing manner. Outdoor installation is feasible under a variety of conditions, such as tighter carrier centre distances, rod casings or primary grids. This range also includes disassembly accessories. We are happy to provide further information upon request. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

APPENDICES

Grilum

The suspended ceiling will be created with the GRILUM double-skin open cell celing from PLAFOMETAL, which measure 600 x 600 mm or 600 x 1200 mm as standard, in prepainted aluminum, have a thickness of 4/10 and are available in RAL 9003 white, RAL 9006 grey, RAL 9005 black, RAL 5003 blue, RAL 8014 brown, RAL 1015 beige or RAL 7015 grey (please contact us for other colours). The cell will be square or rectangular and have a pitch measuring 50, 60, 75, 86, 100, 120, 150 or 200 mm. The ceiling will be implemented on a system made up of concealed U-shaped runners and spacers (in the same colour and shape as the grid), which are suspended on the structure using a fixation device adapted to the support. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The open cell celing will integrate directly into the grid. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Grilam i

The suspended ceiling will be created with the GRILAM I double-skin open cell celing, which have a staggered height and linear effect, from PLAFOMETAL. They measure 1200 x 600 mm as standard, in prepainted aluminum, have a thickness of 4/10 and are available in RAL 9003 white, RAL 9006 grey, RAL 9005 black, RAL 5003 blue, RAL 8014 brown, RAL 1015 beige or RAL 7015 grey (please contact us for other colours). The open cell celing are made up of U-shaped profiles measuring 5 or 9 mm thick, 40 mm tall and 15 mm x 38 mm at the top. The standard pitches are 50, 60, 75, 86, 100, 120 and 150 mm, which are maintained by the 15 element using a centre distance of 150 / 200 and 300 mm. The ceiling will be implemented on a system made up of concealed U-shaped runners and spacers (in the same colour and shape as the grid), which are suspended on the structure using a fixation device adapted to the support. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The open cell celing will integrate directly onto or underneath the grid, depending on the finish chosen. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Grilax

The suspended ceiling will be created with the GRILAX double-skin open cell celing featuring a belt from PLAFOMETAL, which measure 600 x 600 mm or 1200 x 600 mm as standard, in prepainted aluminum, have a thickness of 4/10 and are available in RAL 9003 white, RAL 9006 grey, RAL 9005 black, RAL 5003 blue, RAL 8014 brown, RAL 1015 beige or RAL 7015 grey (please contact us for other colours). The open cell celing are made up of U-shaped profiles measuring 15 mm wide and 38 mm tall. The cell will be square or rectangular and have a pitch measuring 60, 75, 86, 100, 120, 150 or 200 mm. The ceiling will be implemented on a system of white or coloured T15 grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of spacers measuring 1200 mm and 600 mm. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The open cell celing will rest on the grid, with their underside flush with the bottom of the grid. The grid will remain fully visible.
Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Grilam X

The suspended ceiling will be created with the GRILAM X double-skin open cell celing, which have a staggered height and linear effect, from PLAFOMETAL. They measure 600 x 600 mm or 1200 x 600 mm as standard, in prepainted aluminum, have a thickness of 4/10 and are available in RAL 9003 white, RAL 9006 grey, RAL 9005 black, RAL 5003 blue, RAL 8014 brown, RAL 1015 beige or RAL 7015 grey (please contact us for other colours). The open cell celing are made up of U-shaped profiles measuring 9 or 15 mm thick, 40 mm tall (pitch) and 15 mm x 38 mm at the top (centre distance). A peripheral belt borders the grid so as to integrate it into a T15 grid. The standard pitches are 40, 50, 60, 75, 86, 100, 120 and 150 mm, which are maintained by the top element with a centre distance of 150 / 200 or 300 mm. The ceiling will be implemented on a system of white or coloured T15 grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of spacers measuring 1200 mm and 600 mm. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The open cell celing will rest on the grid, with their underside flush with the bottom of the grid. The grid will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Monoline

The suspended ceiling will be created with MONOLINE single-skin open cell celing from PLAFOMETAL, which measure 600 x 600 mm or 1200 x 600 mm (please contact us for other sizes), in prepainted aluminum, have a thickness of 6/10 and are RAL 9003 white and RAL 9005 black. The open cell celing are made of flat sheet metal measuring 20 mm tall. The cell will be square with a pitch measuring 30 mm (in the standard size). The ceiling will be implemented on a system of white or black T15 or T24 grids, which consist of runners suspended on the structure using a fixation device adapted to the support, and on a system of spacers measuring 1200 mm and 600 mm. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The open cell celing will rest on the grid, with their underside flush with the bottom of the grid. The grid will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Grilook

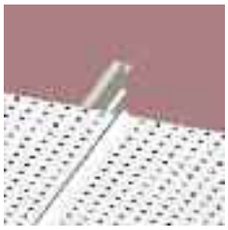
The suspended ceiling will be created with the Grilook double-skin open cell celing from PLAFOMETAL, which measure 600 x 1200 mm as standard, in prepainted aluminum, have a thickness of 4/10 and are available in RAL 9003 white, RAL 9006 grey, RAL 9005 black, RAL 5003 blue, RAL 8014 brown, RAL 1015 beige or RAL 7015 grey (please contact us for other colours). The open cell celing are made up of U-shaped profiles measuring 5 mm thick and 30 mm tall. The cell will be square or rectangular with a pitch measuring 40, 50, 60, 75, 86 or 100 mm. The ceiling will be implemented on a system made up of runners suspended on the structure using a fixation device adapted to the support. The carrier positioned in the top part allows the grid to move in both a transversal and a longitudinal direction. The open cell celing will integrate directly underneath the grid. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Grilam B

The suspended ceiling will be created with the GRILAM B double-skin open cell celing, which have a staggered height and linear effect, from PLAFOMETAL. They measure 1200 x 600 mm as standard, in prepainted aluminum, have a thickness of 4/10 and are available in RAL 9003 white, RAL 9006 grey, RAL 9005 black, RAL 5003 blue, RAL 8014 brown, RAL 1015 beige or RAL 7015 grey (please contact us for other colours). The open cell celing are made up of U-shaped profiles measuring 5 or 9 mm thick, 40 mm tall and 15 mm x 38 mm at the top. The standard pitches are 50, 60, 75, 86, 100, 120 and 150 mm, which are maintained by the 15 element using a centre distance of 150 / 200 and 300 mm. The ceiling will be implemented on a system made up of runners suspended on the structure using a fixation device adapted to the support. The carrier positioned in the top part allows the grid to move in both a transversal and a longitudinal direction. The open cell celing will integrate directly underneath the grid. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Pm10

The suspended ceiling will be created with Pm10 self-supporting metal panels from PLAFOMETAL, which measure 150 mm, 200 mm or 300 mm wide, in white or 9006 grey prepainted steel, have a thickness of 5 or 6/10 (for aluminum, the prelacquer is either white or 9006 grey with a thickness of 7/10) and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at chamfered angles. Their extremities will be open-ended. The ceiling will be implemented on a grid system adapted to the grid: wall angle, wall angle with hollow joint, T35, smooth plate, omega. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, which will remain fully visible.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

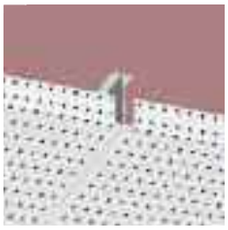


Pm12

The suspended ceiling will be created with Pm12 self-supporting metal panels from PLAFOMETAL, which measure 300 mm wide, in white or 9006 grey prepainted steel, have a thickness of 5/10 (for aluminum, the prelacquer is either white or 9006 grey with a thickness of 5/10) and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at chamfered angles and interlock using the male and female sealing ring angle on their longitudinal sides. Their extremities will be open-ended. The ceiling will be implemented on a grid system adapted to the grid: wall angle, wall angle with hollow joint, T35, smooth plate, omega. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, which will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

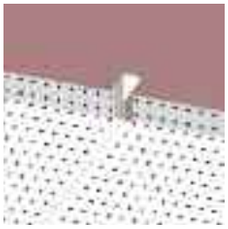
Pm8 FS (fire resistance)

The suspended ceiling will be created with Pm8 FS (fire resistance) self-supporting metal panels from PLAFOMETAL, which measure 300 mm wide, in white or 9006 grey prepainted steel, have a thickness of 6/10 and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute angles on their longitudinal sides. Their extremities will be open-ended or straight and raised The ceiling will be implemented on a grid system, either of the wall angle or wall angle with spoiler type, which measures 30 x 30 mm and has a thickness of 8/10. The slabs will rest on the grid, which will remain fully visible. The length, perforation rate and ceiling implementation process will have to take account of the specifications set out in the 1/2 h fire stability classification and test reports and will comply with the provisions set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.



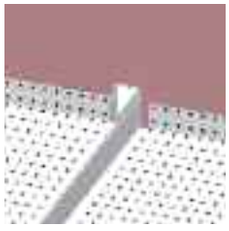
Pm2

The suspended ceiling will be created with Pm2 self-supporting metal panels from PLAFOMETAL, which measure 300 mm or 400 mm wide, in white or 9006 grey prepainted steel, have a thickness of 5/10 or 6/10 and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute or chamfered angles on their longitudinal sides. Their extremities will either be open-ended, straight and raised or raised in a Z shape. The ceiling will be implemented on a grid system adapted to the grid: wall angle, wall angle with hollow joint, T35, smooth plate, omega, rail C or extruded aluminum profile. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, which will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.



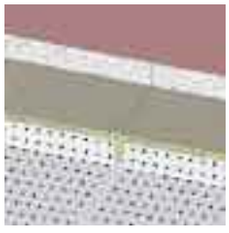
Pm3

The suspended ceiling will be created with Pm3 self-supporting metal panels from PLAFOMETAL, which measure 300 mm or 400 mm wide, in white or 9006 grey prepainted steel, have a thickness of 5/10 or 6/10 and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute or chamfered angles and overlap on their longitudinal sides. Their extremities will either be open-ended, straight and raised or raised in a Z shape. The ceiling will be implemented on a grid system adapted to the grid: wall angle, wall angle with hollow joint, T35, smooth plate, omega, rail C or extruded aluminum profile. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, which will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.



Pm4

The suspended ceiling will be created with Pm4 self-supporting metal panels from PLAFOMETAL, which measure 300 mm or 400 mm wide, in white or 9006 grey prepainted steel, have a thickness of 5/10 or 6/10 and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute angles and will form a 15 x 30 hollow joint on their longitudinal sides. Their extremities will either be open-ended, straight and raised or raised in a Z shape. The ceiling will be implemented on a grid system adapted to the grid: wall angle, wall angle with hollow joint, T35, smooth plate, omega, rail C or extruded aluminum profile. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, which will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.



Pm5 heavy-fill panel

The suspended ceiling will be created with Pm5 heavy, self-supporting metal panels from PLAFOMETAL, which measure 300 mm or 400 mm wide, in white or 9006 grey prepainted steel, have a thickness of 6/10 and are either Unperforated or perforated. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. These panels will be filled with a 25 mm insulating material, which will be covered with a 13 mm plasterboard resting on tilting legs and thus ensuring lateral insulation between premises. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute or chamfered angles on their longitudinal sides. Their extremities will either be open-ended, straight and raised or raised in a Z shape. The ceiling will be implemented on a grid system adapted to the grid: wall angle, wall angle with hollow joint, smooth plate, omega, rail C or extruded aluminum profile. A runner in the same colour as the grid will guarantee peripheral finishing at the walls and partition walls. The slabs will rest on the grid, which will remain fully visible. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Horus

The suspended ceiling will be created with HORUS self-supporting metal panels from PLAFOMETAL, which come in white or 9006 grey prepainted steel, have a thickness of 5/10 or 6/10 and are either Unperforated or perforated across a width of 300 mm, 400 mm or 600 mm with a length adapted to the grid without exceeding the self-supporting limits. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute angles on their longitudinal sides. Their extremities will be raised at the ends. The ceiling will be implemented on a system of concealed grids, which consist of an extruded aluminum carrier enabling subsequent ceiling removal. A runner in the same colour as the grid or a concealed edge profile forming an open hollow joint will guarantee peripheral finishing at the walls and partition walls. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Orial

The suspended ceiling will be created with ORIAL opening by swing down, self-supporting metal panels from PLAFOMETAL, which come in white or 9006 grey prepainted steel, have a thickness of 6/10 or 75/100, and are either Unperforated or perforated across a width of 300 mm, 400 mm or 600 mm and 50 mm in height. The length will be adapted to the corridor grid without exceeding the self-supporting limits. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute angles on their longitudinal sides. Their extremities will be straight and raised at the ends. The ceiling will be implemented on a system of concealed grids, which consist of prepainted steel profiles with a thickness of $^{10/10,}$ measure 40 x 45 x 29 x 12 and ensure that the panels can be pivoted and hung without knowing the sliding direction. These profiles will be screwed down to an adjustment range in prepainted steel with a thickness of 10/10 and fixed to the vertical support. A 25 mm open hollow joint will ensure the junction between the panels and the partitions. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1. For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Orial FS (fire resistance)

As described under Orial, but take account of the specifications set out in the 1/2 h fire stability classification statement.

Aries

The suspended ceiling will be created with ARIES opening by swing down, self-supporting metal panels from PLAFOMETAL, which come in white or 9006 grey prepainted steel, have a thickness of 6/10 or 75/100, and are either Unperforated or perforated across a width of 300 mm, 400 mm or 600 mm and 50 mm in height. The length will be adapted to the corridor grid without exceeding the self-supporting limits. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute angles on their longitudinal sides. Their extremities will be raised at the ends in a Z shape. The ceiling will be implemented on a system of visible grids, which consist of prepainted steel profiles with a thickness of 75/100, a visible width of 30 mm and the same colour as the panels. These profiles will ensure pivoting of the panels on the one hand and hanging and alignment of the panels on the other. A 20 mm closed hollow joint will ensure the junction between the panels and the profiles. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1. For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Axess

The suspended ceiling will be created with AXESS opening by swing down, self-supporting metal panels from PLAFOMETAL, which come in white or 9006 grey prepainted steel, have a thickness of 6/10 or 75/100, and are either Unperforated or perforated across a width of 300 mm, 400 mm or 600 mm and 50 mm in height. The length will be adapted to the corridor grid without exceeding the self-supporting limits. The perforated panels will be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute angles on their longitudinal sides. Their extremities will be raised at the ends in a Z shape. The ceiling will be implemented on a system of concealed grids, which are made up of squares fixed to the vertical partition and enable recovery on the underside of an omega, along which the legs featuring 10 mm steel axes will run. The panels will be fixed to these axes and the retaining clips will ensure that they can be hung and pivoted. An edge wall angle in the same colour as the panels will guarantee peripheral finishing at the walls and partitions, while preserving a 20 mm closed hollow joint. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1. For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

Translabac

The suspended ceiling will be created with TRANSLABAC opening and sliding self-supporting metal panels from PLAFOMETAL, which come in white or 9006 grey prepainted steel, have a thickness of 6/10 or 75/100 and are either Unperforated or perforated. 300 mm, 400 mm or 600 mm wide and 35 mm tall. The length will be adapted to the corridor grid without exceeding the self-supporting limits. The perforated panels could be lined with a black acoustic fleece, which is thermo-glued in the factory, or with an insulating material to ensure the acoustic absorption of the assembly. The perforation will be continued lengthwise and discontinued across the width of the panel. The panels will be joined at acute angles on their longitudinal sides. Their extremities will be raised at the ends in a Z bracket. The ceiling will be implemented on a visible grid system, which consists of prepainted steel profiles with a thickness of 75/100 and a visible width of 30 mm, or on an extruded aluminum profile for grid formation installation. These profiles are in the same colour as the panels. These profiles will guarantee the panels' resting position and alignment. For wall-to-wall installation, they will be connected by means of bolting to a 40 x 45 mm range fixed to the partition, creating an adjustment hollow joint. The panels could be moved by means of lifting, then they will rest and slide along the top fold of the retaining profile. Implementation will comply with the specifications set out in the NFP 68203-1 & 2 standards, and French code of practice DTU 58-1.
For specific applications, users must confirm with PLAFOMETAL that the specifications are fit for the intended purpose.

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