



SYSTEM BROCHURE

OPEN-CELL CEILING

**IDEAL FOR
SHOPPING MALLS,
AND CREATING LIGHT EFFECTS
AND AIRY SPACES**

**Customized solutions possible
with each system**

AESTHETICS

- + Ceiling conceals the plenum when viewed at an angle, while allowing air and light to circulate
- + Square (SQUARE) or linear (GRILAM) design
- + Invisible grid that blends in seamlessly with the open-cell components
- + Wide choice of colors

PRACTICAL

- + Suspension systems suited to two grid types: T or integrated
- + Enables active fire protection systems to operate
- + Custom-made open-cell panels and personalized accessories

A Saint-Gobain brand

PLAFOMETAL

Discover the two types of open-cell ceilings available from Plafometal and check out the details of each system on the following pages.

1

CELLULAR CELL SQUARE



System comprising aluminum panels with square open-cells to give the ceiling a cellular appearance. Ideal for stores in shopping malls.

- Two types of cell: single skin and double skin
- Several cell dimensions available
- Two suspension systems: T grids and integrated grids

2

LINEAR CELL GRILAM



System comprising aluminum panels with offset open-cells to give the ceiling a linear appearance. Ideal for concourses in shopping malls.

- Several cell dimensions available
- Integrated grid
- Carriers and open-cell panels in kit format
- Several colors available for the lower and upper components of the open-cell panels
- Swing-down option

1

CELLULAR CELL SQUARE



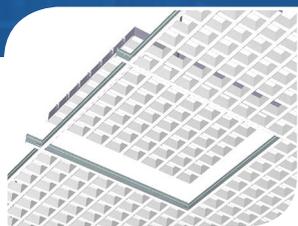
- Two types of cell: single skin and double skin
- Several cell dimensions available
- Two suspension systems: T grids and integrated grids

SELECTION GUIDE

Choose the system best suited to your needs and the configuration for your open-cell ceiling. Check out all the details in each system datasheet.

FRAMED DOUBLE SKIN OPEN-CELL ON T GRID SYSTEM

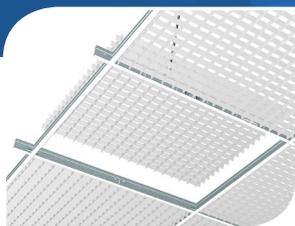
SQUARE T15
[PLAFOMETAL-OC-110]



- + Formerly named Grilax
- + Double skin cells
- + Installation on a T15 grid
- + Invisible grid
- + Robust system

SINGLE SKIN OPEN-CELL ON T GRID SYSTEM

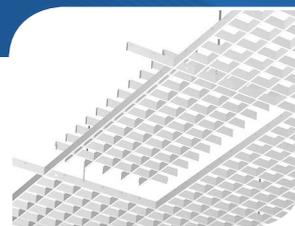
SQUARE MONO
[PLAFOMETAL-OC-120]



- + Formerly named Monoline
- + Single skin cells
- + Installation on a T15 and T24 grid
- + Invisible grid
- + Robust system

DOUBLE SKIN OPEN-CELL WITH INTEGRATED GRIDS SYSTEM

SQUARE I
[PLAFOMETAL-OC-130]



- + Formerly named Grilum
- + Double skin cells
- + Installation on an integrated grid
- + Invisible grid
- + Robust system



Reaction to fire

according to EN 13501-1
A1



Active fire protection

according to EN 12845

If sprinklers are fitted above an open-cell suspended ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area. In practice, an open area percentage greater than 80% is frequently required for the ceiling elements.



Colors

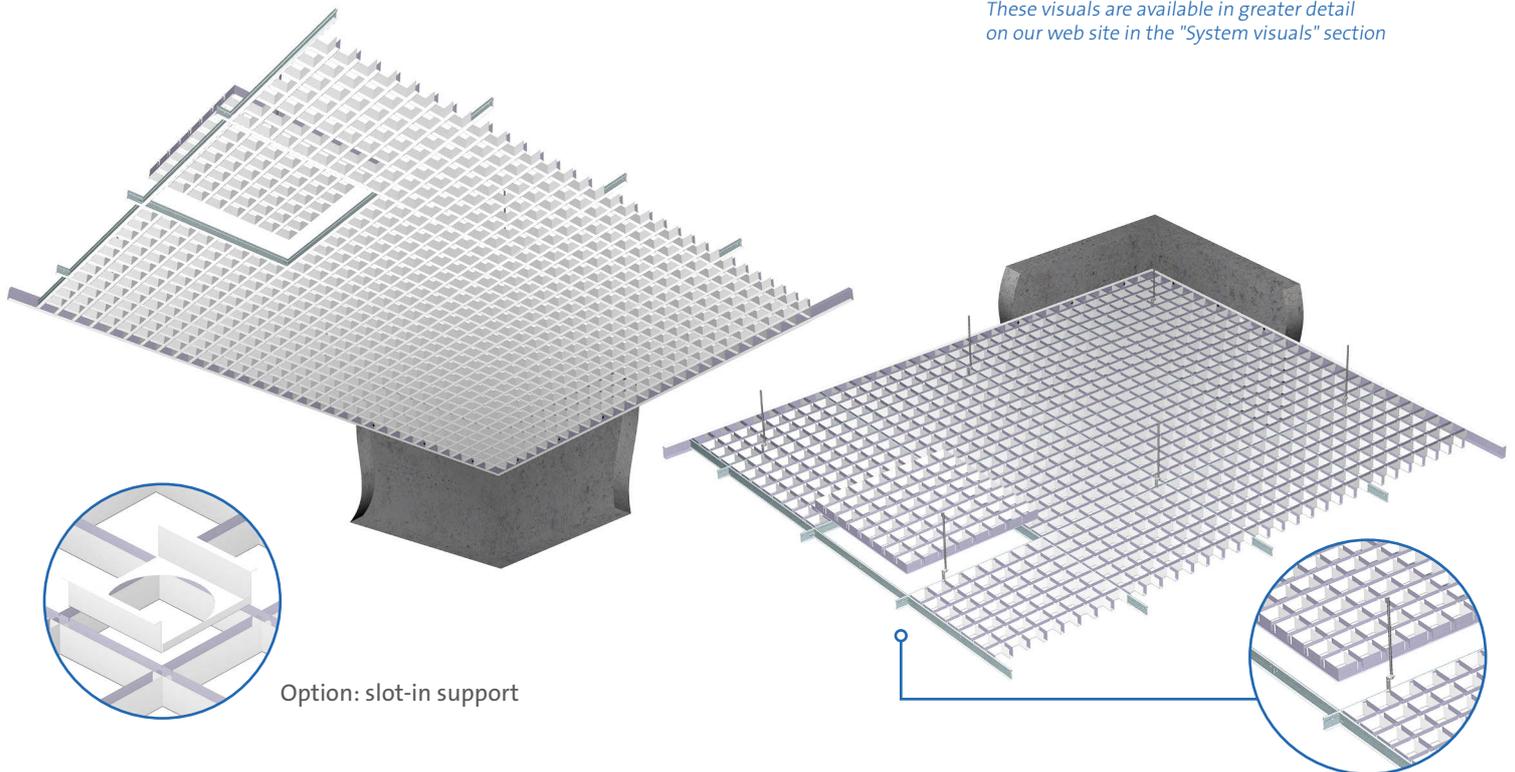
Standard White (RAL 9003) - Prepainted polyester
Black (RAL 9005) - Prepainted polyester
Metallic Gray (RAL 9006)* - Prepainted polyester
Other colors subject to quantity* - Prepainted polyester
*Available depending on the system; refer to each datasheet.



FRAMED DOUBLE SKIN OPEN-CELL ON T GRID SYSTEM

SQUARE T15 (*Grilax*)
[PLAFOMETAL-OC-110]

General view - underneath and above



These visuals are available in greater detail on our web site in the "System visuals" section

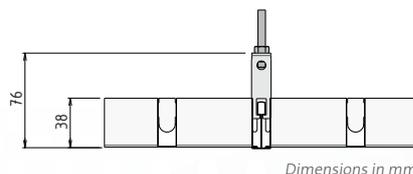
Description

- Framed double skin open-cell ceiling for T15.
- Designed to be installed on a T15 grid.
- Gives the ceiling an open-cell effect.
- The grid is concealed by the frame surrounding the panels.

Intended use

Ideal for: stores in shopping malls.

Sectional view showing space requirements



FRAMED DOUBLE SKIN OPEN-CELL ON T GRID SYSTEM

SQUARE T15 (*Grilax*)
[PLAFOMETAL-OC-110]

KEY FEATURES

- + Aesthetics: the T grid blends seamlessly with the panel
- + Aesthetics: conceals the plenum when viewed at an angle, while creating an impression of space and light
- + Safety: high open area percentage for active fire protection systems
- + Installation: quick to fit and easy to disassemble

SYSTEM INFORMATION							
Component	Dimensions (mm)				Open area percentage	Material	
	Width	Length	Double skin (U elements)	Cell dimensions			
 Square T15* (formerly named Grilax)	600	600 other length on request	Width 15 Height 38	Square or rectangular with intervals of 50, 60, 75, 86, 100, 120, 150 or 200	More than 70% from cell size 100 x 100 mm More than 80% from cell size 150 x 150 mm For other cell sizes, contact us	Aluminum thickness 0.4 mm	
 L wall angle	40 x 20 Lg. 3,000				Aluminum		
 T15 carrier profile	Lg. 3,600				Steel		
 T15 1200 cross tee	Lg. 1200				Steel		
 T15 600 cross tee	Lg. 600				Steel		
 Adjustable hanger or Slide hanger	-				Steel		
 Option: Slot-in support	-				Aluminum		

* Refer to the product datasheet

 **Additional acoustic component**
Possibility of providing an insulating material incorporated in the panel, held in place by its frame; contact us.

 **Opening**
By simply lifting the panel in the grid.

 **Reaction to fire**
according to EN 13501-1
Euroclass A1

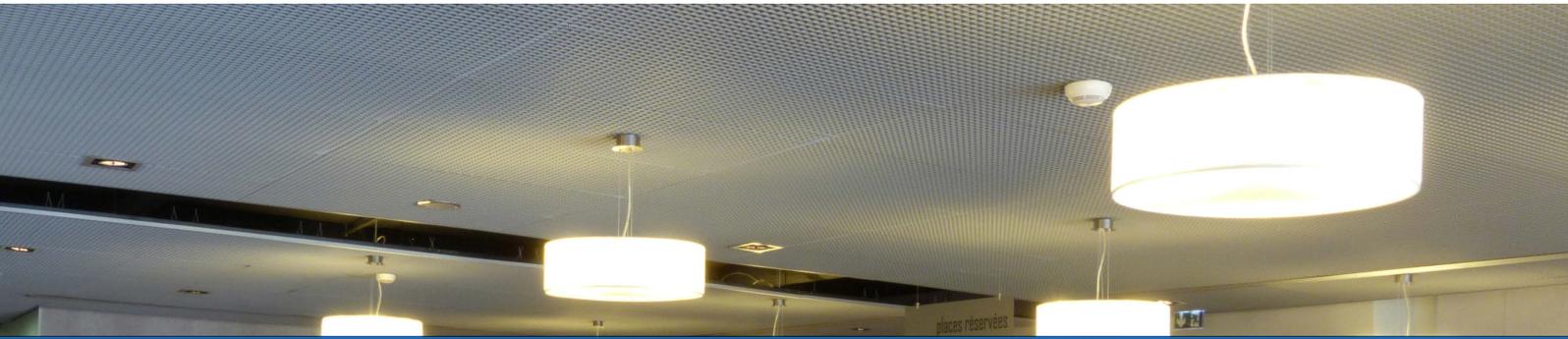
 **Cut-outs and integration**
Slot-in supports for spots, sprinklers or other fittings on request.

 **Indoor air quality**
Class A+

 **Active fire protection**
according to EN 1284
If sprinklers are fitted above an open-cell suspended ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area. In practice, an open area percentage greater than 80% is frequently required for the ceiling elements.

Open area percentage
More than 70% from cell size 100 x 100 mm.
More than 80% from cell size 150 x 150 mm. For other cell sizes, contact us.

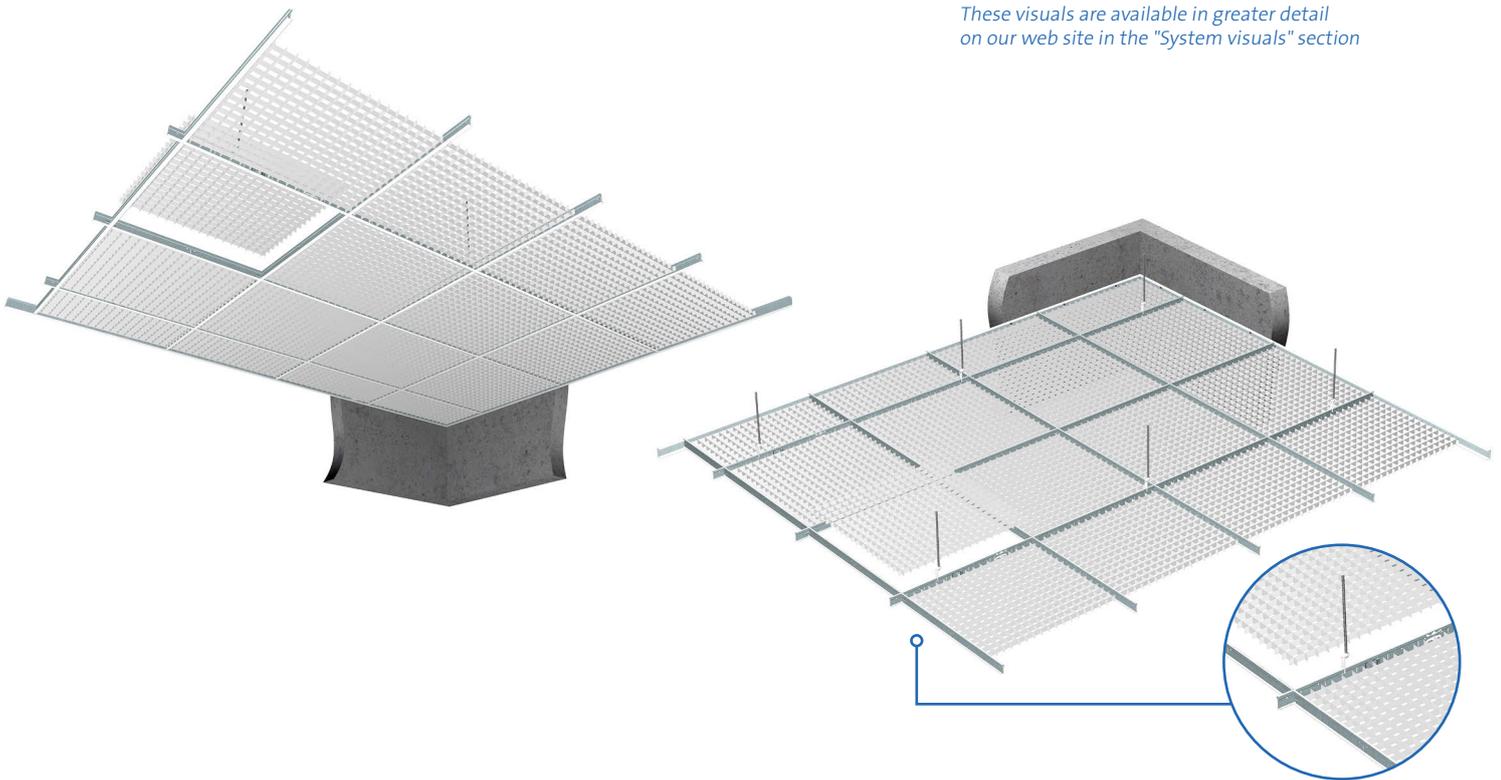
 **Colors**
Standard White (RAL 9003) - Prepainted polyester
Black (RAL 9005) - Prepainted polyester
Metallic Gray (RAL 9006) - Prepainted polyester - on request



SINGLE SKIN OPEN-CELL ON T GRID SYSTEM

SQUARE MONO (MONOLINE)
[PLAFOMETAL-OC-120]

General view - underneath and above



These visuals are available in greater detail on our web site in the "System visuals" section

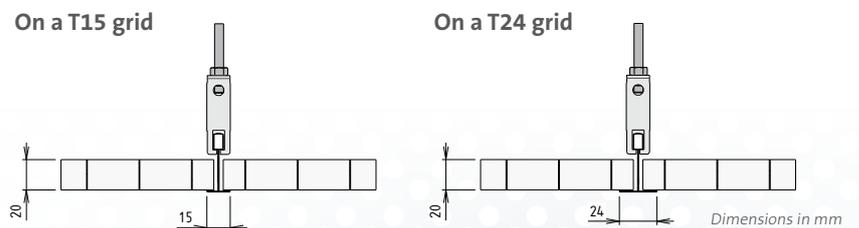
Description

- Single skin open-cell ceiling for T15 or T24.
- Designed to be installed on a T15 or T24 grid.
- Gives the ceiling an open-cell effect.
- Can occasionally be used in conventional ceilings as low light diffusers, lighting pelmets or air vents.

Intended use

Ideal for: plant rooms and stores in shopping malls.

Sectional view showing space requirements



SINGLE SKIN OPEN-CELL ON T GRID SYSTEM

SQUARE MONO (MONOLINE) [PLAFOMETAL-OC-120]

KEY FEATURES

- Aesthetics:** conceals the plenum when viewed at an angle, while creating an impression of space and light
- Safety:** high open area percentage for active fire protection systems
- Installation:** quick to fit and easy to disassemble

SYSTEM INFORMATION							
Component	Dimensions (mm)				Open area percentage	Material	
	Width	Length	Single skin (l elements)	Cell dimensions			
 Square Mono* (formerly named Monoline)	600 other widths on request	600 1,200 other length on request	Height 20	Square with an interval of 33 x 33 mm Other cell sizes on request	More than 95% for cell size 33 x 33 mm For other cell sizes, contact us	Aluminum thickness 0.6 mm	
 L wall angle	40 x 20 Lg. 3,000				Aluminum		
 T15/T24 carrier profile	Lg. 3,600				Steel		
 T15/T24 1200 cross tee	Lg. 1200				Steel		
 T15/T24 600 cross tee	Lg. 600				Steel		
 Adjustable hanger or	-				Steel		
 Slide hanger	-				Steel		

* Refer to the product datasheet

 **Opening**
By simply lifting the panel in the grid.

 **Reaction to fire**
according to EN 13501-1
Euroclass A1

 **Indoor air quality**
Class A+

 **Active fire protection**
according to EN 1284

If sprinklers are fitted above an open-cell suspended ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area. In practice, an open area percentage greater than 80% is frequently required for the ceiling elements.

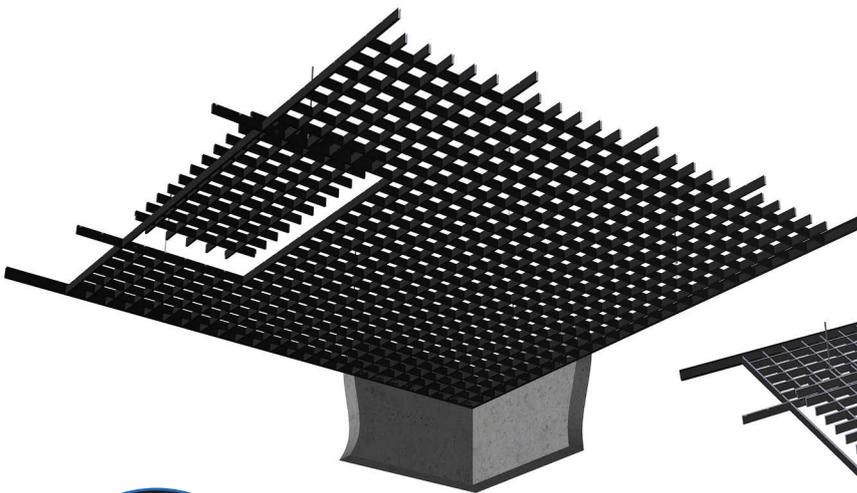
Open area percentage
More than 95% for cell size 33 x 33 mm.
For other cell sizes, contact us.

 **Colors**
Standard White (RAL 9003) - Prepainted polyester
Black (RAL 9005) - Prepainted polyester
Other colors subject to quantity - Prepainted polyester

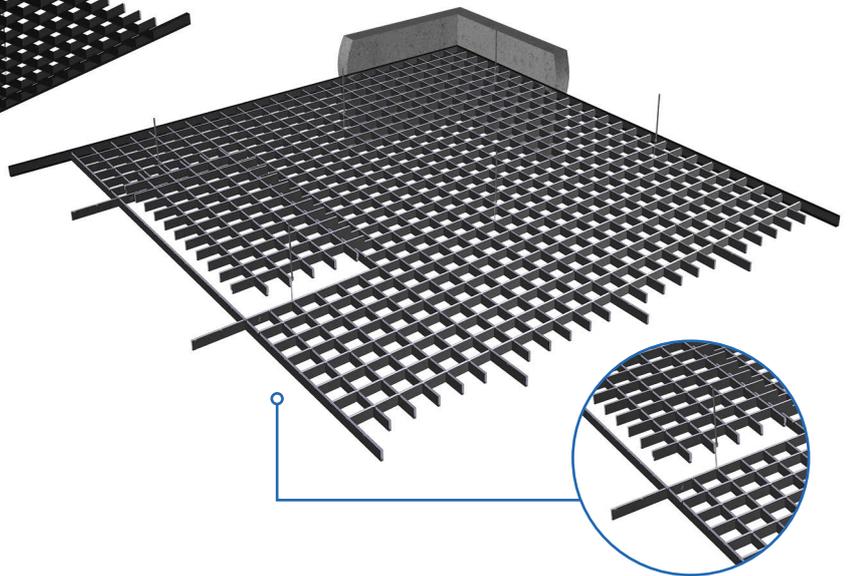
DOUBLE SKIN OPEN-CELL WITH INTEGRATED GRID SYSTEM

SQUARE I (GRILUM)
[PLAFOMETAL-OC-130]

General view - underneath and above



These visuals are available in greater detail on our web site in the "System visuals" section



Option: slot-in support

Description

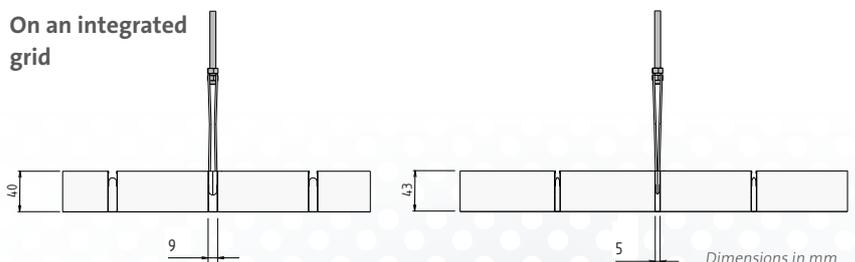
- ▶ Double skin open-cell ceiling with an integrated grid.
- ▶ Designed to be installed on an integrated grid.
- ▶ Gives the ceiling an open-cell effect.
- ▶ The grid has the same U profiles as the panel.

Intended use

Ideal for: stores in shopping malls.

Sectional view showing space requirements

On an integrated grid



DOUBLE SKIN OPEN-CELL WITH INTEGRATED GRID SYSTEM

SQUARE I (GRILUM) [PLAFOMETAL-OC-130]

KEY FEATURES

- Aesthetics:** conceals the plenum when viewed at an angle, while creating an impression of space and light
- Safety:** high open area percentage for active fire protection systems
- Practical:** grid and panels supplied in kit format

SYSTEM INFORMATION						
Component	Dimensions (mm)				Open area percentage	Material
	Width	Length	Double skin (U elements)	Cell dimensions		
 Square i* (formerly named Grilum)	600	1,200 other length on request	Square i5 Width 5 Height 43 Square i9 Width 9 Height 40	Square or rectangular with intervals of 50, 60, 75, 86, 100, 120, 150 or 200	Depending on the width of the U elements and cell dimensions; contact us	Aluminum thickness 0.4 mm
 L wall angle	40 x 20 Lg. 3,000					Aluminum
 U-section carrier profile**	Lg. 2,400					Aluminum
 U-section cross tee**	Lg. 1,200					Aluminum
 Wire hanger**	-					Steel
Option: Slot-in support	-					Aluminum

* Refer to the product datasheet

** Kit delivered in several packs, including the open-cell panels and the necessary quantity of carriers, hangers for Ø6 mm threaded rods and carrier connectors.

Opening
Square i panels can occasionally be disassembled.

Reaction to fire
according to EN 13501-1
Euroclass A1

Cut-outs and integration
Slot-in supports for spots, sprinklers or other fittings on request.

Indoor air quality
Class A+

Active fire protection
according to EN 1284
If sprinklers are fitted above an open-cell suspended ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area. In practice, an open area percentage greater than 80% is frequently required for the ceiling elements.

Open area percentage
Depending on the width of the U elements and cell dimensions; contact us.

Colors
Standard White (RAL 9003) - Prepainted polyester
Metallic Gray (RAL 9006) - Prepainted polyester
Black (RAL 9005) - Prepainted polyester
Other colors subject to quantity - Prepainted polyester



2

LINEAR CELL GRILAM



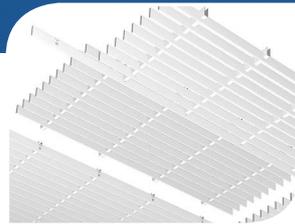
- Several cell dimensions available
- Integrated grid
- Carriers and open-cell panels in kit format
- Several colors available for the lower and upper components of the open-cell panels
- Swing-down option

SELECTION GUIDE

Choose the system best suited to your needs and the configuration for your open-cell ceilings.
Check out all the details in each system datasheet.

DOUBLE SKIN OPEN-CELL WITH INTEGRATED GRID SYSTEM

GRILAM I
[PLAFOMETAL-OC-210]



Reaction to fire

according to EN 13501-1
A1



Active fire protection

according to EN 1284

If sprinklers are fitted above an open-cell suspended ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area. In practice, an open area percentage greater than 80% is frequently required for the ceiling elements.



Colors

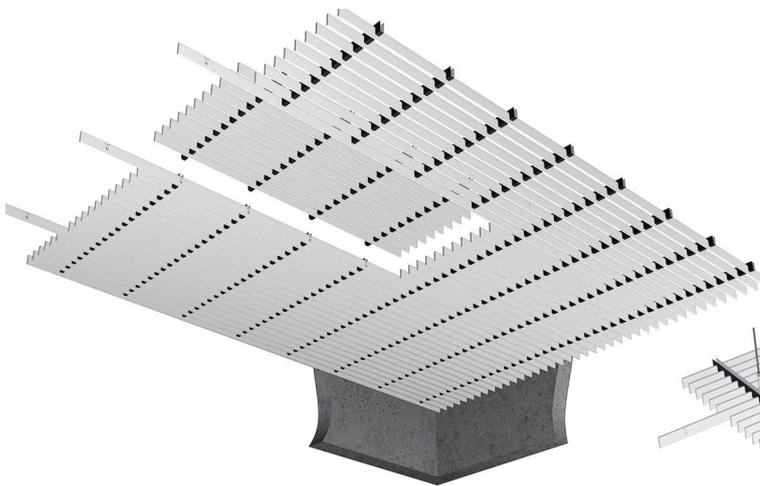
Standard White (RAL 9003) - Prepainted polyester
Metallic Gray (RAL 9006) - Prepainted polyester
Black (RAL 9005) - Prepainted polyester
Other colors subject to quantity - Prepainted polyester



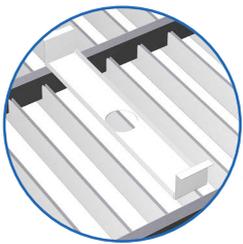
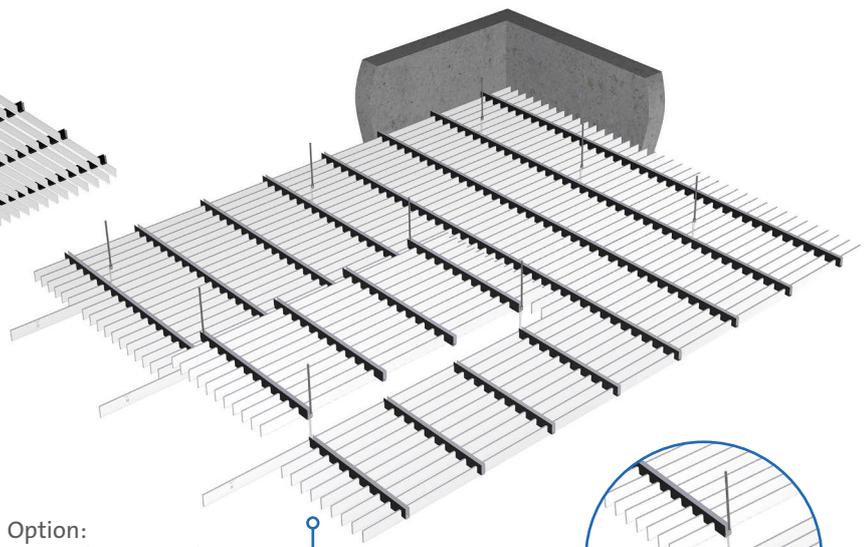
DOUBLE SKIN OPEN-CELL CEILING WITH INTEGRATED GRID SYSTEM

GRILAM I
[PLAFOMETAL-OC-210]

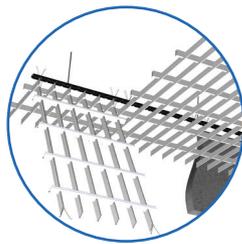
General view - underneath and above



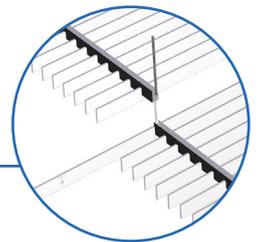
These visuals are available in greater detail on our web site in the "System visuals" section



Option: slot-in support



Option: swing-down panels on Grilam B semi-concealed carriers



Description

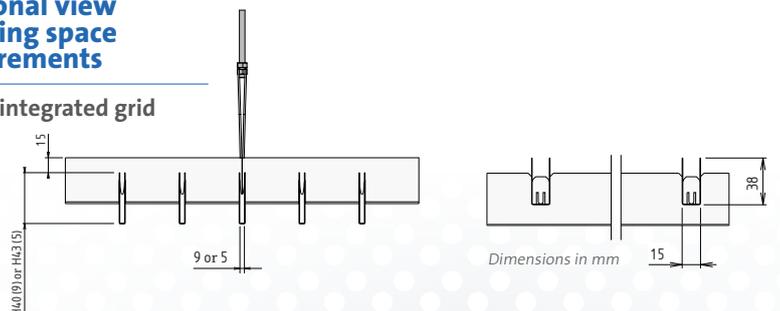
- Linear-effect double skin open-cell ceiling with an integrated grid.
- Designed to be installed on an integrated grid.
- Gives the ceiling a linear appearance, since the U cross-elements are offset vertically. There is also the possibility of using black for an even more discreet effect.
- The grid has the same U profiles as the panel.

Intended use

Ideal for: concourses in shopping malls.

Sectional view showing space requirements

On an integrated grid



DOUBLE SKIN OPEN-CELL CEILING SYSTEM FOR INTEGRATED GRIDS

GRILAM I [PLAFOMETAL-OC-210]

KEY FEATURES

- ⊕ **Aesthetics:** reinforced linear appearance
- ⊕ **Aesthetics:** conceals the plenum when viewed at an angle, while creating an impression of space and light
- ⊕ **Safety:** high open area percentage for active fire protection systems
- ⊕ **Practical:** grid and panels supplied in kit format

SYSTEM INFORMATION						
Component	Dimensions (mm)				Open area percentage	Material
	Width	Length	Double skin (U elements)	Cell dimensions		
 Grilam i*	600	1,200 other length on request	Grilam i5 Width lower U element = 5 Width upper U element = 15 Height 43 Grilam i9 Width lower U element = 9 Width upper U element = 15 Height 40	Rectangular with intervals more than 200 or 300 mm by intervals less than 50, 60, 75, 86 or 100	More than 70% for all cell sizes in all models More than 80% for all cell sizes in Grilam i5 and from cell size 200 x 75 mm for Grilam i9	Aluminum thickness 0.4 mm
 L wall angle	40 x 20 Lg. 3,000				Aluminum	
 U-section carrier profile**	Lg. 2,400				Aluminum	
 Wire hanger**	-				Steel	
Option: Slot-in support	-				Aluminum	

* Refer to the product datasheet

** Kit delivered in several packs, including the open-cell panels and the necessary quantity of carriers, hangers for Ø6 mm threaded rods and carrier connectors.

 **Opening**
Grilam i panels can occasionally be disassembled.
Swing-down version on request: Grilam B

 **Reaction to fire**
according to EN 13501-1
Euroclass A1

 **Cut-outs and integration**
Slot-in supports for spots, sprinklers or other fittings on request.

 **Indoor air quality**
Class A+

 **Cut-outs and integration**
Slot-in supports for spots, sprinklers or other fittings on request.

 **Active fire protection**
according to EN 1284
If sprinklers are fitted above an open-cell suspended ceiling, the total plan open area of the ceiling, including light fittings, must not be less than 70% of the ceiling plan area. In practice, an open area percentage greater than 80% is frequently required for the ceiling elements.

Open area percentage
More than 70% for all cell sizes in all models.
More than 80% for all cell sizes in Grilam i5 and from cell size 200 x 75 mm for Grilam i9.

 **Colors**
Standard White (RAL 9003) - Prepainted polyester
Metallic Gray (RAL 9006) - Prepainted polyester
Black (RAL 9005) - Prepainted polyester
Other colors subject to quantity - Prepainted polyester

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

A Saint-Gobain brand

PLAFOMETAL

Plafometal - Simplified joint-stock company with a capital of €200,960 - Listed in the Sedan Trade and Companies Register under no. 423 933 779 - Route de Phades, 08800 Monthermé, France. Photo credits: Plafometal, Pascal Artur, Fotolia, June 2020. Do not litter. Arcade in Centre Pompidou-Metz © Shigeru Ban Architects Europe and Jean de Gastines Architectes, with Philip Gumuchdjian for designing the award-winning project / Metz Métropole / Centre Pompidou-Metz / Photos Olivier H. Dancy.

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